

THE
ARCHITECT
& BUILDING NEWS

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- SOME RECENTLY COMPLETED CHURCHES
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- INFORMATION DIGEST

24 DECEMBER 1953

VOL. 204

NO. 26

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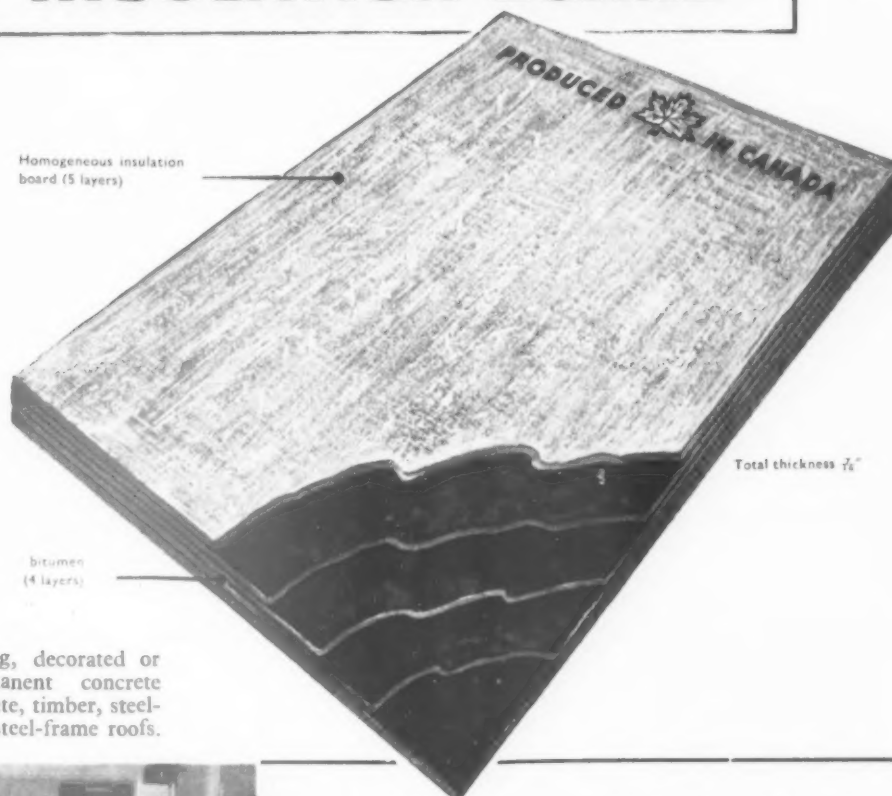
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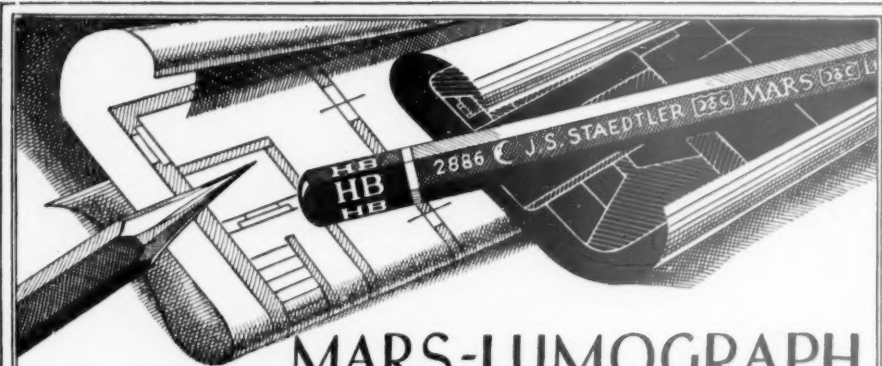
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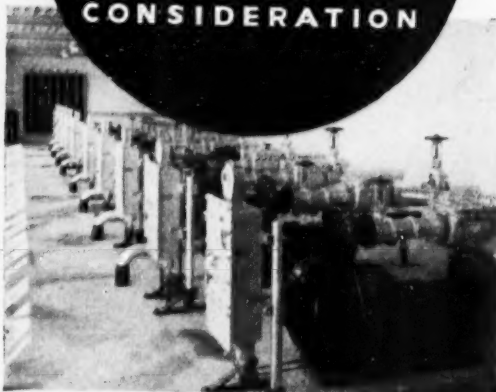
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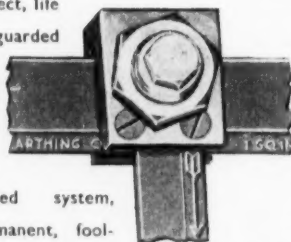


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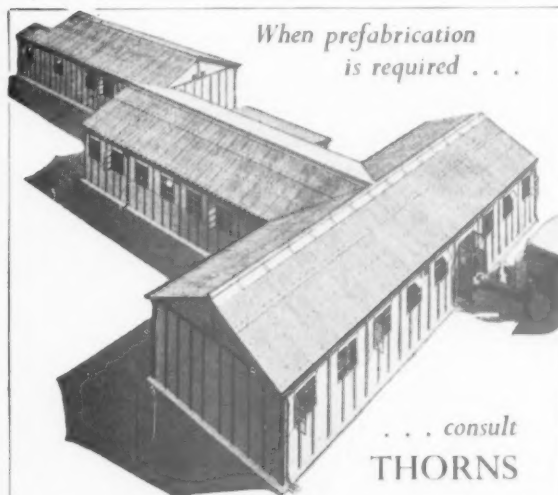
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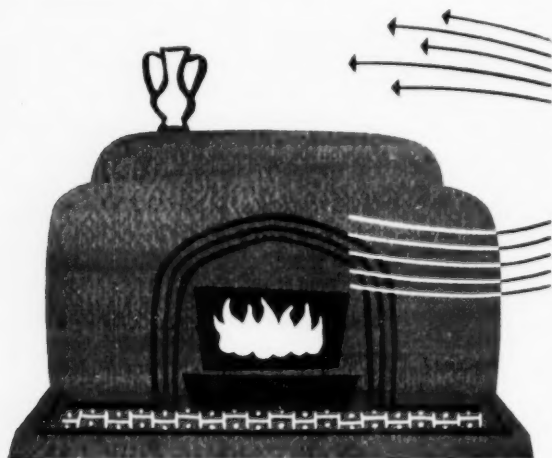
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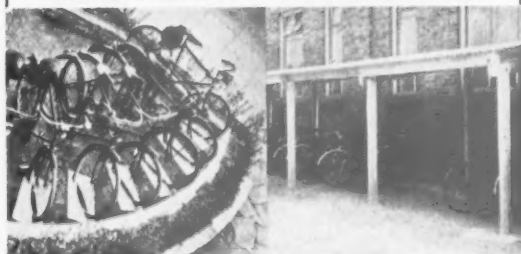
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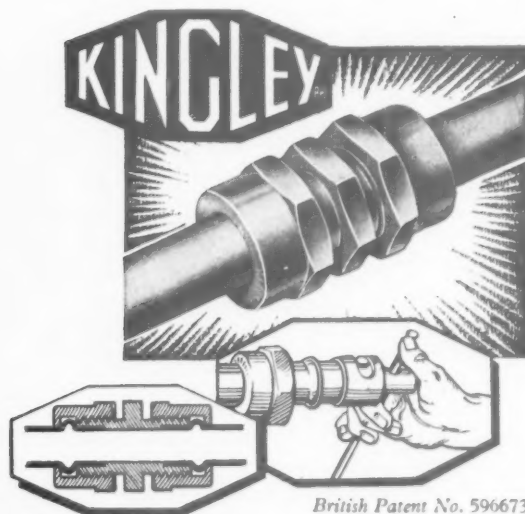


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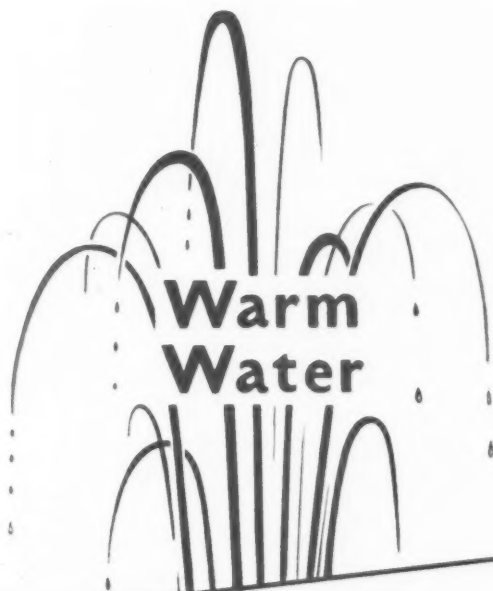
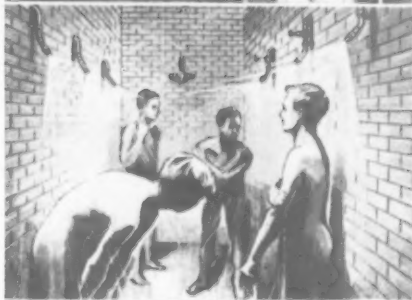
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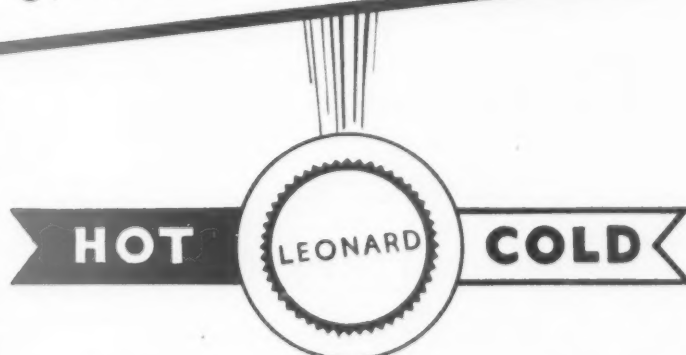
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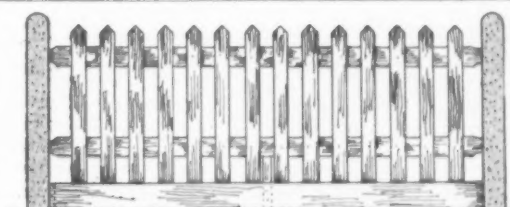
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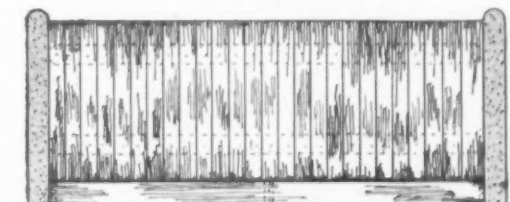
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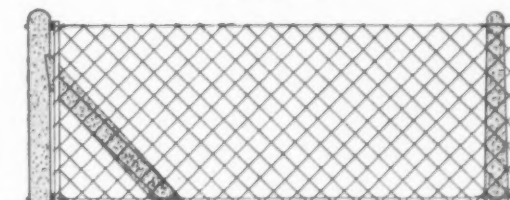
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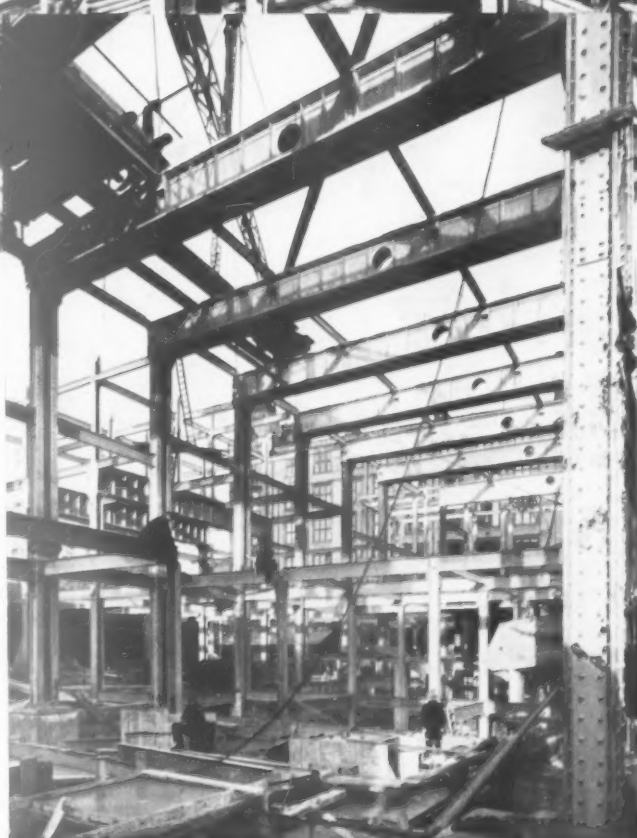
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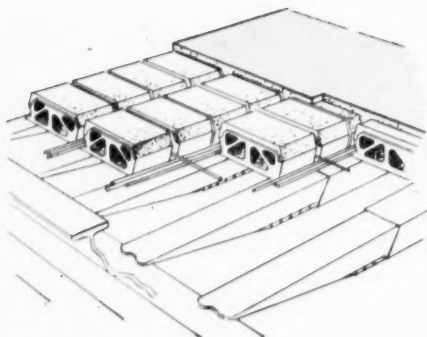
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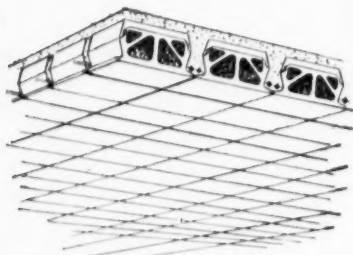
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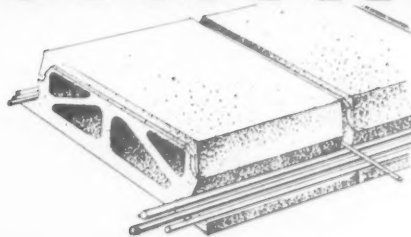
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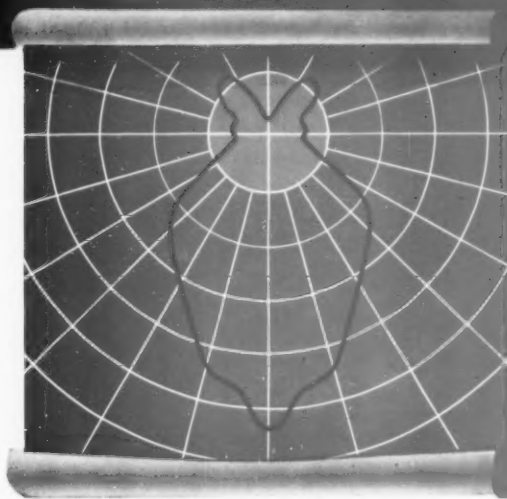


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THE
ARCHITECT
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24 December 1953

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Christ Church, Bristol (1787-1791) designed by William Paty. This is one of the Bristol Churches recommended for closure by the Bristol Diocesan Reorganization Committee.

MASTER WILLIAM'S PLUMMET

THE great tower was almost finished; indeed, Master William was the only skilled man left working on it. If the truth were known, he went round finding little jobs to do to keep himself employed, for he dreaded the day when he must leave and seek work elsewhere. Whenever he could find an excuse William climbed to the top of the tower to make sure that all was well and that all the joints had been truly made. These visits were really superfluous, for had not William made them all himself, and was he not one of the finest journeyman masons in the country? The Lord Abbot in later years was heard to say that Bell Harry Tower owed a great deal to William's skill; although, of course, it was John Wastell, the master mason, who made the design and superintended the work. Others used to say that everything was due to William's plummet of polished black stone, curiously shaped and apparently of great age. In their leisure moments the monks and other workmen sometimes questioned William about this stone; usually he answered vaguely, but now and then he would talk about it a little, mentioning how old it was and how his father had been given it by a dying pilgrim returned from the Holy Land.

At last the unhappy day came when William had to leave Canterbury. He put his few belongings in a leather bag and set out on foot for London, where he had heard there was work for masons. The road from Canterbury to London is full of hills and valleys and climbs gradually to Dunkirk. About a mile before it reaches Dunkirk church there is an inn, and from the roadway here the top of Bell Harry Tower is first visible to the Canterbury pilgrim. Many times William had turned on his walk to look back at the cathedral and his tower. He did so with pride as it stood out splendidly above the woods, and he thought how it would encourage tired travellers and help them to cover the last few miles of their pilgrimage. After a long look he turned sadly on his way and the plummet which was at the bottom of his bag slipped through a chafed hole and fell into the mud of the roadway. William did not notice as, with steady pace and bowed head, he continued on his way to London.

The second William of this story was also a master mason, and it was he who superintended the fixing of the great gold cross on the summit of the new St. Paul's Cathedral high above old London Bridge. William was a quiet fellow but second to none at his craft, so that he was naturally admired and respected by Sir Christopher Wren. The architect's regard for William was something more than admiration, for he was fond of saying that William had made many suggestions during the building of the great cathedral which had improved the design. William did not really care for all this praise, and thought of it as flattery from a grand gentleman, although he knew that he was a fine mason. The other masons used to tease him for being so old-fashioned in his work and for using the most primitive tools. For instance, where they used brass plumb bobs with elaborately chased decoration and sharp-pointed ends, William used an odd-shaped piece of polished black stone which he said had belonged to his father and grandfather before him. No one knew quite where it had come from but the story that William liked to believe was that it had been found

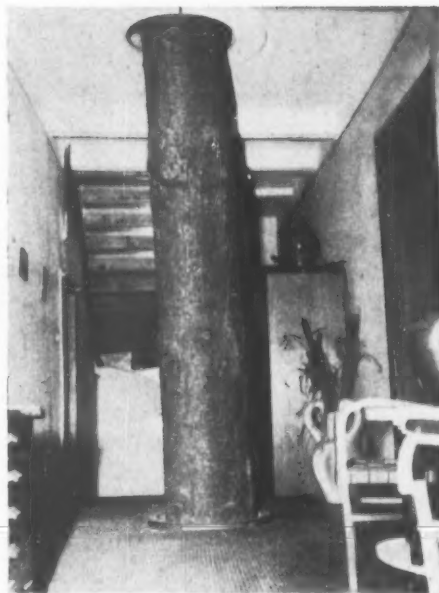
on the road to Canterbury one sunny Christmas morning by an old man who had noticed it shining.

On one of his final tours of inspection Sir Christopher Wren, with a number of Church dignitaries, wanted to see just how accurately the dome had been constructed and asked for a plumb line to be dropped from the ball below the cross to the floor of the cathedral more than 300 feet below. William had some difficulty in finding sufficient line for the job; flustered by this and by the distinguished gathering he did not tie the plummet securely to the line, so that when he let it fall on its way to the floor the knot undid and the stone fell uncontrolled to the ground. Another plummet was found and the test carried out but by the time William had climbed to the ground his precious plummet had been carted away with a load of refuse and dumped in the marshes to the east of London Bridge. The loss of the plummet nearly broke William's heart but he had the compensation of living within sight of St. Paul's for the rest of his life, and that was something.

When Thomas Cubitt, the first building contractor, planned to develop the land between Hyde Park and Pimlico, he realised that he would need many thousands of loads of soil to make the low-lying parts of it suitable for building. Luckily for him other Victorian developers were also at work digging the docks and he was able to contract to remove the excavated soil and use it to fill the hollows in what is now Belgravia. One of Mr. Cubitt's general foremen on this job was named William. He was a capable and hard-working man and his employer predicted a great future for him. William thought of nothing but his work and even on Christmas day took a walk round the site to see that everything was in order. It was a bright, sunny day and near a newly excavated trench William's attention was attracted by a brightly shining, curiously shaped, small black stone. He picked it up almost without thinking and put it in his pocket. On his way home it occurred to him that it was just the thing for a weight for his old bracket clock, and once fitted, there the plummet remained for years. William on the other hand went on and up. From foreman to manager, manager to director. From employee to employer, and then to property developer in his own right. At each of William's steps up, the old bracket clock went one step down and passed by thus from drawing room to servants hall, where one day it stopped for good and was given to a rag and bone man. He, having no use for the stone weight cut it off and put it in a bag with other bits of material.

Years later the plummet, with a collection of pieces of marble, some sea shells and a bottle of coloured sands was bought by an antique dealer as part of a mixed lot. He really meant to throw the odds and ends away before taking them home, but he forgot and everything was consigned to his shop in the centre of Coventry. Like most people of his kind the antique dealer had little time for sorting things out and the plummet stayed in its strange company at the back of the shop until one night the German bombs came down and the shop and with it the very heart of Coventry was utterly destroyed. The plummet being indestructible remained, and still remains, buried immediately beneath the spot where the altar of the new Coventry Cathedral will one day be built, and there it waits for the next William.

A BNER



WHAT TO DO WITH YOUR OLD CHRISTMAS TREE

Many parents are loath to throw away the Christmas tree after the festive season is over. Here is a way out of the difficulty. Bore a hole, it can be quite small, say 3 inches in diameter, through your ground floor. Gently free the Christmas tree from its pot, taking care not to injure the roots. Leave it in water overnight and then place it, roots downward, through the hole you made in the floor. Forget all about it for ten or twelve years and then you will find you have a real big Christmas tree growing up through your house like Herr Alfred Rexroth, who built his house round a tree on a hill at Lohr in the Spessart Mountains. Readers may like to send suggested details of the flashings where tree penetrates roof. They should be designed so as not to be fatal to the tree.

QUIZ

1. Which have the following in common :
Marquis de Vogue ; Baron Von Schmidt ; Baron von Hansen ; Sir Laurence Alma-Tadema.
A. Drowned in the sinking of the Titanic.
B. Jury for the design of the Eiffel Tower Competition.
C. R.I.B.A. Gold Medallists.
2. What is a quartic ?
3. Give the names of the architects for :
A. Bucklersbury House.
B. Wilton House, nr. Salisbury.
C. McDermot House, Dublin.
D. Time & Life Building, Bond Street.
4. Name the Queen's Beasts.
5. Who is the most recently elected member of the Royal Fine Art Commission ?
6. What year was the Architects' Benevolent Society Founded ?
7. Who is Slade Professor of Architecture in Oxford University ?
8. Who gave away the prizes at the A.A. School of Architecture this year :
A. Sir Hugh Casson.
B. Barnett Freedman.
C. Professor Basil Ward.
9. What are :
(a) A broach spire ; (b) a pocket-piece ; (c) a with or withe ; (d) a chuff.
10. Of what country is Chandigarh the new capital ?
11. Lord tried to mend the Electric Light Himself. It struck him dead : And serve him right ! It is the business of the wealthy man To give employment to the artisan. What is the missing name and who is the author ?
12. A. Who is Surveyor to the Fabric of Westminster Abbey ?
B. What architect designed sets for Opera at Glyndebourne during 1953 ?
C. Who is first Lethaby Professor ?
D. Who won 1st prize in contest for League of Nations Palace, Geneva, 1927 ?
13. Which of the following described Gothic churches as : "heavy, dark, melancholy and monkish piles . . ." and "mountains of stone, vast and gigantic buildings indeed, but not worthy of the name of architecture."
A. John Evelyn.
B. Dr. Johnson.
C. Lord Palmerston.
D. Professor Pevsner.
14. What is the present address of the British Standards Institution ?
15. What is the present licence-free limit of cost for :
A. Houses.
B. Other buildings.

ANSWERS will be given next week if they can be ascertained

McGill University School of Architecture Competition

A PRELIMINARY notice of this competition appeared in *A. & B. N.* of November 12. Conditions have now reached us. The title of the competition is "*The International Calvert House Competition*," for the *Canadian Home of To-morrow*.

The sponsors are McGill's University's School of Architecture, Montreal, Canada.

Professional Advisors: Professor John Bland, A.R.I.B.A., M.R.A.I.C., Director of the School of Architecture of McGill University, who has been appointed to prepare the programme and to conduct the competition as the Professional Advisor. Professor Pierre Morency, A.D.B.A., M.R.A.I.C., Head of the Department of Architecture of the Ecole de Beaux-Arts de Montreal, has been appointed Associate Professional Advisor.

The Assessors: Eric Arthur, F.R.A.I.C., F.R.I.B.A., Professor of Architecture, University of Toronto; Humphrey Carver, A.R.I.B.A., Chairman of the Research Committee, Central Mortgage and Housing Corporation, Ottawa; and Gio Ponti, architect, Editor of *Domus*, Milan, Italy.

The competition is open to: Architects, members of recognized Architectural Societies (R.I.B.A.); *bona fide* employees of such architects sponsored by their employers; students of Canadian and European Schools with the permission of their Directors.

Conditions are obtainable from:—The Secretary, Royal Institute of British Architects, 66, Portland Place, W.1.

Notification of intention to compete should reach the Director of Architecture, McGill University, not later than midnight, March 1, 1954.

Prizes, offered by Calvert Distillers, Ltd., are: \$5,000 to the design judged best of all entries. \$2,500 to the design judged best of all Canadian entries, excluding the International award. \$2,500 to the best of the European entries, excluding the International award. Ten honourable mentions of \$200. Copies of the Building Standards of the Central Mortgage and Housing Corporation of Canada and of its House Design Booklet will be sent to all competitors who desire further information about current trends in Canadian house building. Competitors are asked to

design a house for a family of five (parents and three children under 15), who desire a house in good taste, simple in detail, and pleasant in colour without being impractical to maintain or too costly to build. They have one car which requires to be sheltered in an enclosed, but not necessarily heated, space. The house itself must be centrally heated. The site adjoins a wooded park providing pleasant views to S. and E. A public road is along the N. side. The diagram shows contours, trees and dimensions. The house is to be designed for great climatic variations. While the competition poses a universal problem that requires a practical solution, aesthetic conditions will be very important to the jury.

Quicker House Building: Full Use of Standard Components Urged

Local housing authorities in England and Wales are again urged to make full use of British Standards in a circular issued on December 15 by Mr. Harold Macmillan, the Minister of Housing and Local Government. "Their advantages are now well established—they make for quicker and cheaper manufacture, facilitate construction on the site, and assure economy in maintenance costs."

To ensure that housing authorities are kept up to date, the British Standards Institution is sending them a list showing current standards most likely to be applicable to local authority housing schemes. The list will be re-issued with amendments at intervals of six to nine months. It includes such things as materials for walls, ceiling finishes, roofs, floors, windows, doors, kitchen and bathroom fittings, stoves, boilers, paints and wallpapers.

DISSOLUTION OF PARTNERSHIP

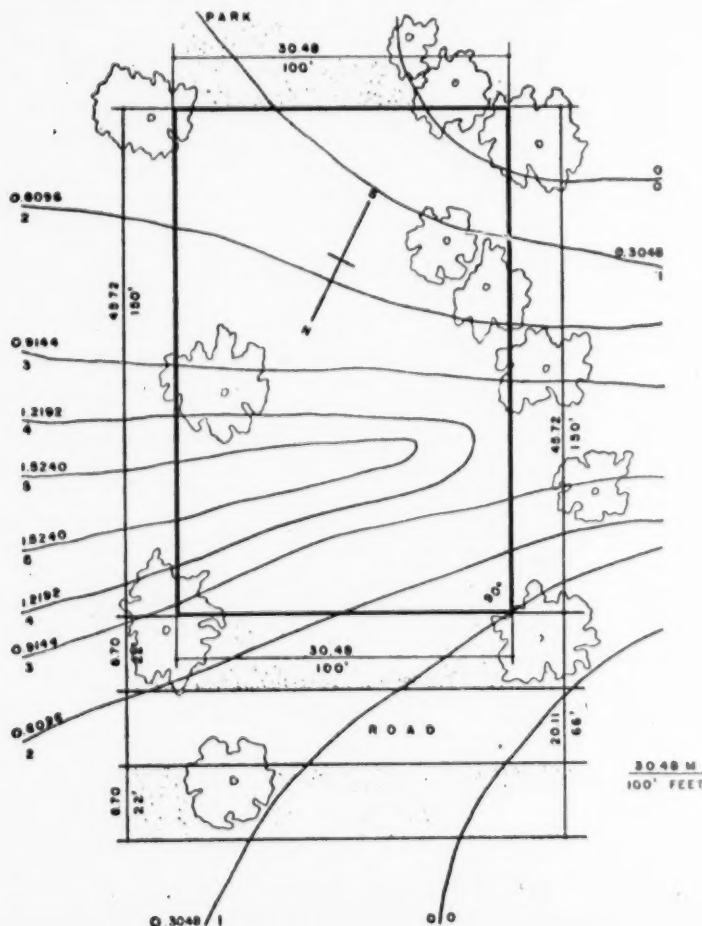
Messrs. Maxwell Ayrton and Partners announce that upon the dissolution of the partnership by mutual consent the practice will be carried on as from January 1, 1954, under the title of Maxwell Ayrton & Courtenay Theobald, F.R.I.B.A., 9, Church Row, N.W.3.

CHANGE OF ADDRESS

A. M. Gear, A.R.I.B.A., of 81, Piccadilly, W.1, has changed his business address to 12, Manchester Square, W.1. Tel.: Hunter 0331-6.

ANNOUNCEMENT

Bertram Carter, F.R.I.B.A., announces that he has found it necessary to have two telephone lines and from December 17 the new numbers are: Museum 3536 and 3537.



**Church
of the
Holy
Epiphany.
Bournemouth**



architects;

RONALD A. PHILLIPS & PARTNERS,
F. & A.R.I.B.A.

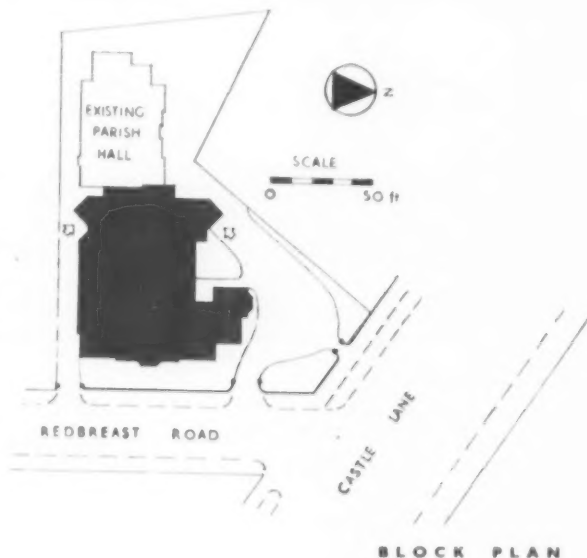
THIS Church has been built in North Bournemouth instead of rebuilding Holy Rood Church at Southampton, which was destroyed by enemy action.

The orientation and general planning is on traditional lines. A connecting corridor links the existing Parish Hall with the west end of the Church. The seating capacity of the building is 350, the majority of the chairs being placed in the nave, with a clear, unobstructed view of the east end and the pulpit. The side aisles are provided only for processional and access purposes.

Across the west end is the recessed Baptistry with pale amber-tinted glass in the ceiling throwing a warm light on to the Portland stone font. The ornamental font cover, decorated in grey, blue and burnished gold, is suspended from the ceiling; the counter-weight balance is in the form of a dove. The north and south porches at the west end each have heated recesses for coats. The Chancel is particularly wide, to give good vision from the nave to the Sanctuary and for religious plays. It is two steps up from the general floor level.

The Sanctuary is one step above the Chancel and nearly the same width. The off-white walls of the body of the Church change gradually eastwards to a pale amber shade obtained by the use of warm-tinted glass in the side windows of the Sanctuary. The east window is temporarily glazed and will shortly be replaced with a stained-glass window.

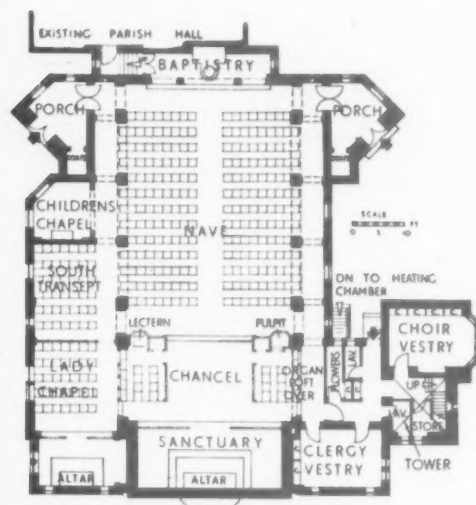
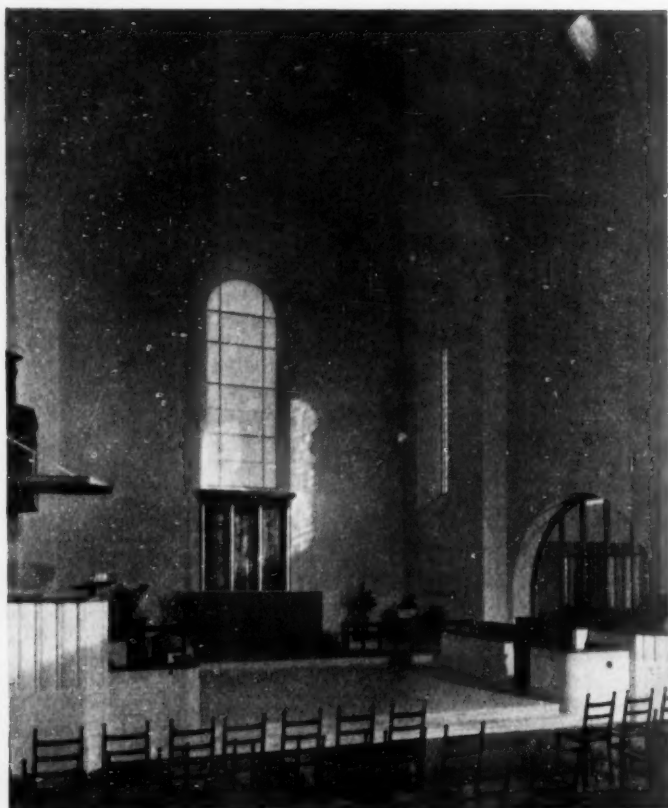
To the north side of the main altar, under the clergy and



BLOCK PLAN

choir vestries, flower room, vergers' store and toilets, is the heating chamber and fuel store. On the floor above is the organ loft for an organ, to be installed later.

Above the vestries rises the 60ft-high tower constructed to accommodate later a ring of eight bells. The



General Contractors:
F. A. Grigg & Son, Ltd.

Asphalte Roofing: Grounds & Newton, Ltd. Clock & Bell Installation: Gillett & Johnston, Ltd. Electrical Installation: Meggitt, Marsh & Co., Ltd. Flooring: Granwood Flooring Co., Ltd. Glaccrete Roof Lights: J. A. King & Co., Ltd. Heating Installation: Mumford, Bailey & Preston, Ltd. Joinery: W. Allen & Co., Ltd. Chancel Screens & Choir Stalls, Ltd. Doors & Fitments: E. W. Kingsbury & Sons. Lightning Conductors: W. J. Furze & Co., Ltd. Rainwater Goods: Walter Macfarlane, Ltd. Reinforced Concrete Frame: E. J. Cook & Co., Ltd. Roof Tiling: Roberts Adlard & Co., Ltd. Stonework: Templeman & Son, Ltd. Windows & Glazing: C. E. Welstead, Ltd. Wrought Iron Screens & Stairs: J. Caslake, Ltd.

Church of the Holy Epiphany, Bournemouth

clock has 6ft-diameter faces to the east, north and west sides of the tower. The flagstaff to the top has a lightning conductor—these being also fitted to the east and west ends of the main building.

Construction

The main building is constructed in reinforced concrete framework with trusses to support the roof and fibrous plaster barrel ceiling. All other construction is by load-bearing brick walls with reinforced concrete floors and flat roofs.

All internal walls are rendered, float finish in the body of the Church and trowelled smooth elsewhere. The west wall of the nave is faced with acoustic plaster. All joinery is in Oak, stained and polished medium oak colour with the exception of the built-in cupboard to the vestries.

Granwood block floors have been used for the nave and vestries, and the pavings to the Baptistry, Chancel and Sanctuary are of Portland Stone with Purbeck (Thornback) Stone skirtings. York Stone has been used for the pavings to the porches.

The pulpit and the enclosures to the oak choir-stalls are of Portland Stone with oak cappings.

Heating is by low-pressure hot water, with recessed convectors operated by an automatic solid-fuel boiler. Both concealed and direct electric lighting have been installed; all fittings are of fluorescent type fixed either vertically or horizontally to the walls.

The cost of the actual building work was approximately £40,000, or about 3s 10d per cubic foot.





The Hall, temporarily used as a church

ST. PAUL'S METHODIST CHURCH, CRAWLEY

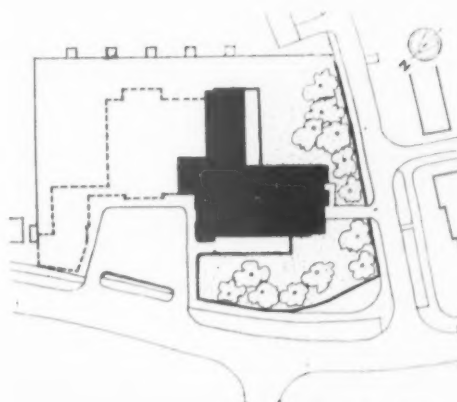
architects: CYRIL A. FAREY, SON & ADAMS

consulting engineer: Felix J. Samely

THIS new Hall which is to be used temporary as a Church, is the first ecclesiastical building to be completed in any of the New Towns.

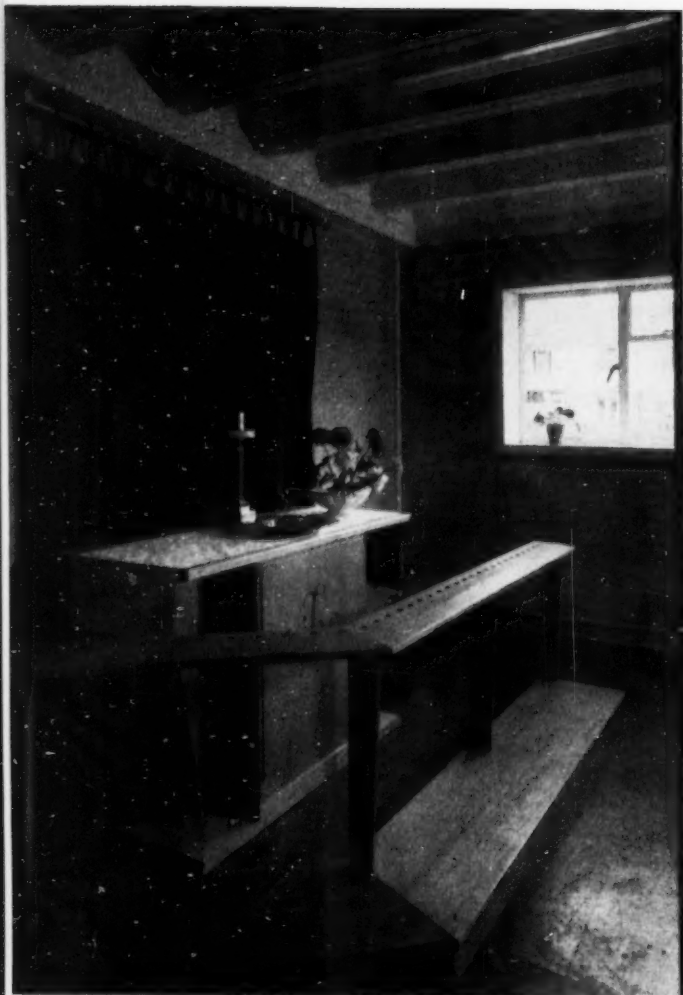
The new building which includes the Hall, three classrooms and several ancillary buildings, is situated opposite the village green at Northgate. When the permanent church and manse are erected at a later date it will form a church group around the existing forecourt and car park.

A glass screen separates the main hall from the crush hall and an open staircase with ornamental grille and balustrade leads to the gallery overhead. A 19ft opening between the gallery and the hall can be closed by means of oak roller shutters to form a projector room or room



BLOCK PLAN

St. Paul's Methodist Church, Crawley



The choir vestry is used as a chapel during the week and the Altar is moved into it.

The crush hall showing entrance door on right and open staircase to gallery.



for other purposes. The gallery can also be used for the choir.

The cloakroom and lavatory block which contains showers for both sexes, will also serve the permanent church. The stage is 18ft deep and behind it are dressing rooms directly accessible to both hall and stage. Under the stage is a chair store.

During the week the choir vestry opposite the side entrance to the hall is used as a chapel, and the Altar is moved into it.

Construction

The structure is of precast concrete portal frame construction with precast concrete roof troughs forming a coffered ceiling. The ceiling has been decorated with two coats of Silixine to a stippled finish. Insulation is by means of a 2in vermiculite screed on which is laid a cement screed and built-up felt roofing. The large metal frame windows overlooking Northgate Green have artificial stone surrounds containing Cornish granite.

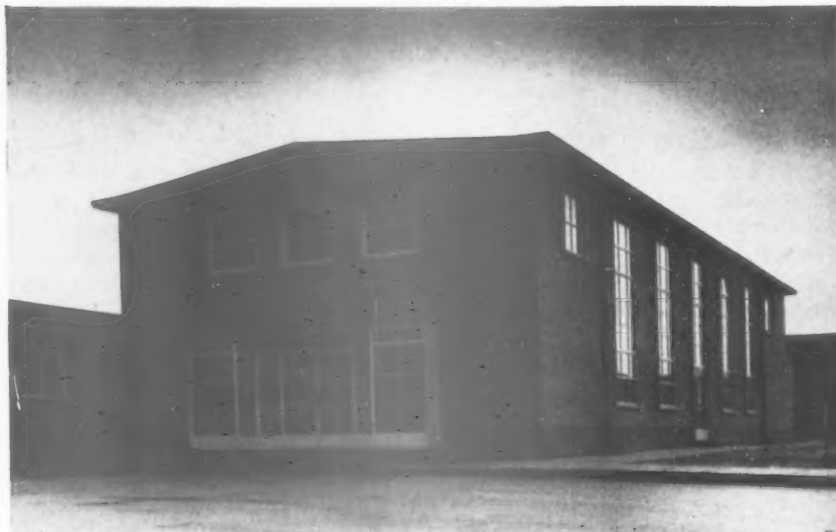
The classroom ceilings make use of the same construction as the hall, and the prestressed beams are only 3½in deep.

The Minister's vestry near the side entrance is constructed with cavity brick walls faced externally with High Broom facing bricks. Uxbridge flint bricks are used internally, fair faced to economize on plastering and to stand up to rough wear.

The hall, stage and classroom floors are finished with African Missanda blocks. The crush hall, lobbies

From the hall's stage, looking towards entrance doors.



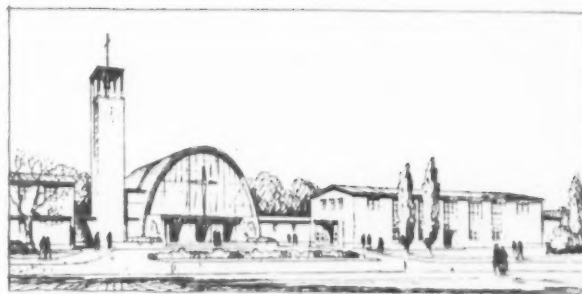


Entrance front to the temporary Church and permanent hall.

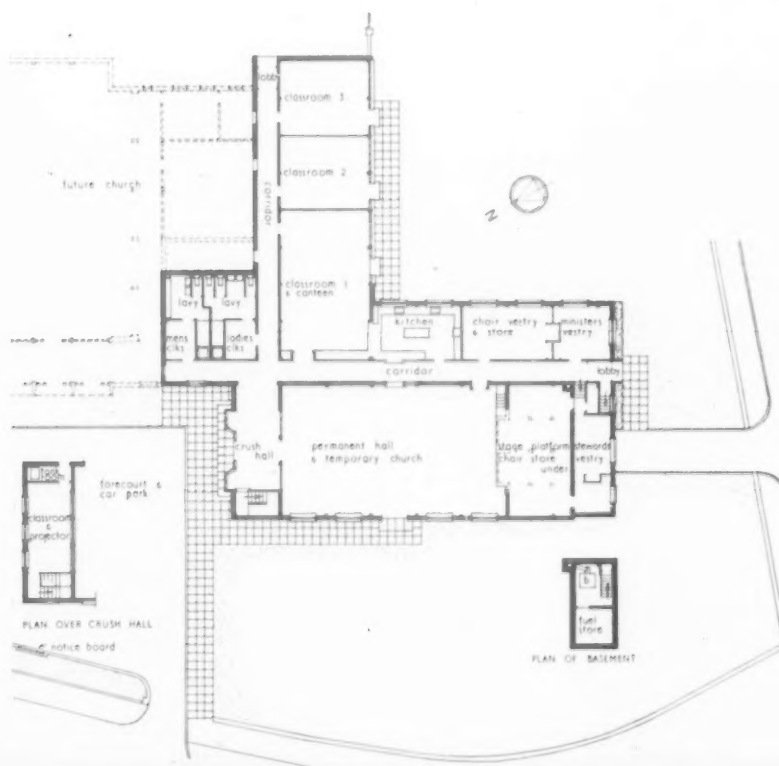
and lavatories are paved with quarry tiles, and the remaining small rooms and corridors are paved with terra cotta Semastic tiles.

Joinery work throughout is carried out in African Agba with a natural polished finish. This hardwood is used for the base and splayed reveal to the proscenium, the gallery opening and the hatches; also for the Altar, pulpit and Communion rail, which are all movable. Beech was used for the plywood facing of the sliding doors and spandrils of steps in front of the stage, as it blends well with Agba.

The tender price for the work was £26,450.



Sketch showing future Church in relation to hall.



Subcontractors

Acoustic Felt and Curtains: Johnson Bros (Brighton), Ltd. Altar, Pulpit & Communion Rail: James Longley & Co., Ltd. Doors: John Sadd, Ltd. Electrical: J. H. Plant, Ltd. Emalux Glaze: J. Ellis & Sons. Facing Bricks (External): Richard Parton & Co., Ltd. Facing Bricks (Internal): Uxbridge Flint Brick Co. Fencing: E. W. Burtenshaw. Fluorescent & Stage Lighting Fixtures: Falk Stadelmann & Co., Ltd. Flooring: Horsley Smith & Co. (Hayes), Ltd. Heating: Young, Austen & Young, Ltd. Ironmongery: Yannedis & Co., Ltd. Metal Windows: Crittall Manufacturing Co., Ltd. Plumbing: G. H. Haden & Sons, Ltd. Precast Concrete: Holland & Hannen & Cubitts. Prestressed Concrete: Liverpool Artificial Stone Co. Roofing: General Asphalt Co. Rolling Shutters: Haskins, Ltd. Stage Equipment: Hall & Dixon, Ltd. Staircase Grille & Balustrade: Russell & Co. (Horley), Ltd. Tanking: Limmer & Trinidad. Vermiculite: J. Cheeseman.

TWO CHURCH CENTRES IN SOUTH-EAST LONDON

architects : COVELL & MATTHEWS

THE immediate task of the Church Authorities in recent years has been that of making good the ravages of war. In this task advantage has been taken of the terms of the agreement between the War Damage Commission and the Church, by which claims in respect of destroyed buildings can, under suitable circumstances, be transferred to new sites.

In the case of many of the new churches a policy has been adopted of establishing all-purpose church centres, to meet both the spiritual and social needs of the parish.

The two centres illustrated in this article are the Church of St. Alban the Martyr at Mottingham, S.E.9, and the Church of St. Francis of Assisi at Horn Park Estate, Lee, S.E.12. They point to certain principles, the first of which is that a sufficient part of the scheme must be so obviously set aside exclusively for worship that there can be no doubt as to the underlying purpose of the whole structure. Thus in the case of Mottingham, "the church" portion comprises half of the area of the entire building; while at Horn Park, although the building has a restricted site, the "church" occupies about 2/5ths of

the project. Again, though in different ways, the architects have sought to make the actual centres of worship both dignified and devotional in their atmosphere, by providing spacious sanctuaries, and ambulatories which give width and variety to the "naves." Colour has been introduced by means of stained-glass windows. The furnishings, while simple and comparatively inexpensive, have been designed by the architects to blend with the buildings.

Each scheme provides for additional "church" accommodation by allowing for some part, or the whole, of the "hall" space to be utilized when necessary. At Horn Park a sliding screen divides what is in effect a weekday chapel from the hall. The stage can also be used both as a separate room for Sunday-school or some similar purpose, or as a choir gallery. The Mottingham building has a partition under the choir gallery which can be withdrawn, to enable seventy additional worshippers to be seated in the hall.

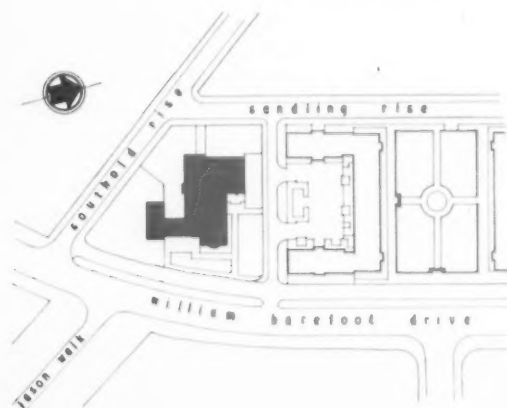
Each centre is provided with cloakroom and kitchen facilities, as well as side-rooms capable of use as vestries or for small meetings. Economy of space at Horn Park

(Continued on page 770)



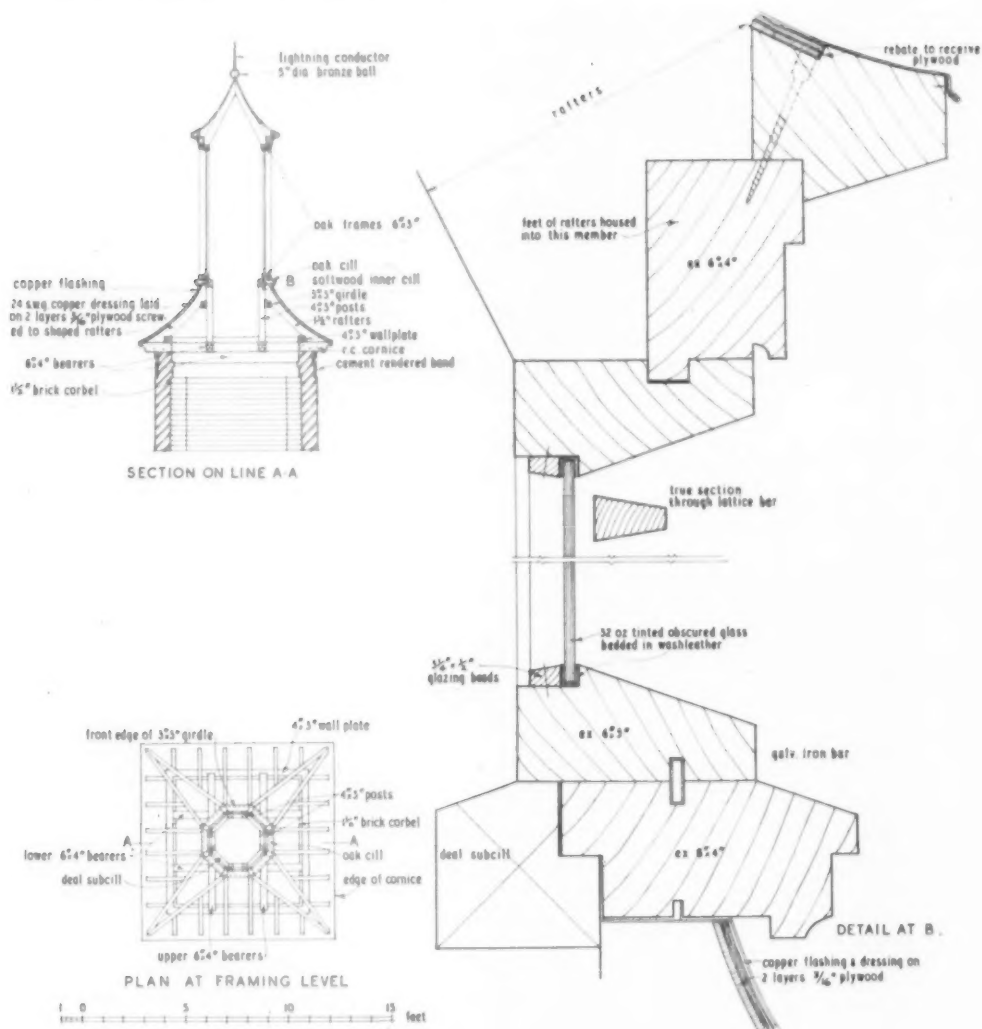
BLOCK PLAN, ST. FRANCIS, HORN PARK

View from North, St. Francis, Horn Park



BLOCK PLAN, ST ALBAN'S MOTTINGHAM



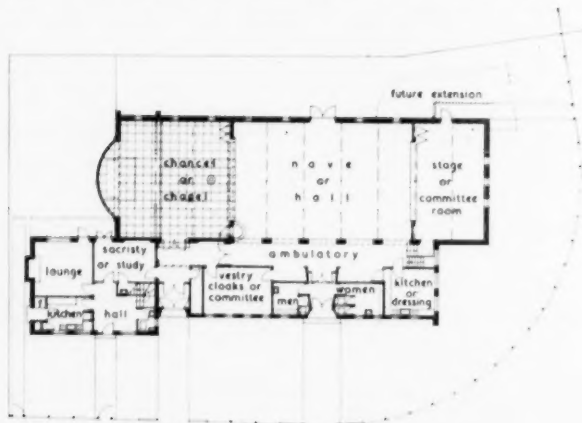


St. Alban's Church, Nottingham, from North-East. Above, detail of steeple.



ST. FRANCIS'S CHURCH, HORN PARK

10 0 10 20 30 40 50 scale in feet



GROUND PLAN



FIRST FLOOR



Hall and Chapel or Nave and Chancel, Horn Park Estate

Two Church Centres, S.E. London

Continued from page 768

led the Architects to plan a sacristy to serve also as the priest's study. It is in fact the connecting link between the priest's private quarters and the rest of the building. At Mottingham, where the parsonage is part of the design, the study is detached from the house so as to avoid callers trespassing upon the domestic privacy of the priest-in-charge, but it is again the link with the main building, with a cloister along the frontage.

construction

The structural system of the two Church groups makes use of load-bearing brick walls on conventional strip foundations, with concrete slab, screed floors and hard core filling. Roofs are wood wool slabs with light weight screed and three layers of roofing felt over. The main roof trusses, supported on 13½ in brickwork, consist of laminated softwood arched beams, with the



ST, ALBAN'S
CHURCH,
MOTTINGHAM

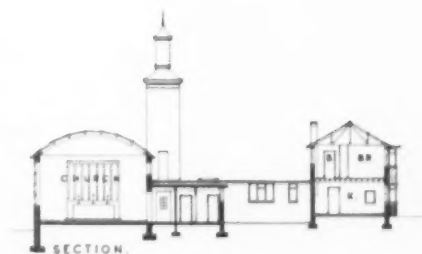
Nave and Sanctuary, St. Alban's, Nottingham

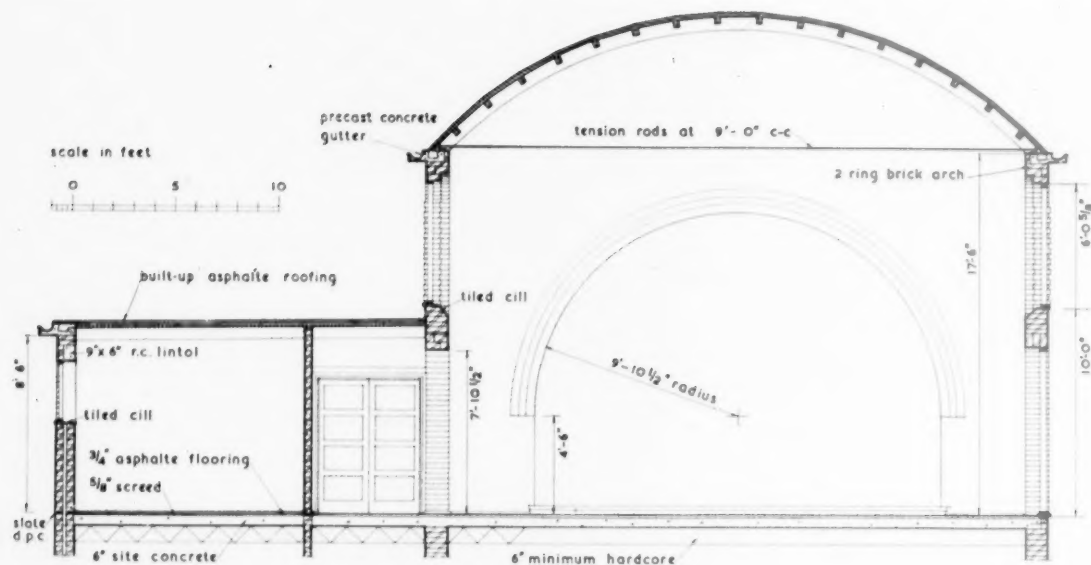


Nave looking towards Hall

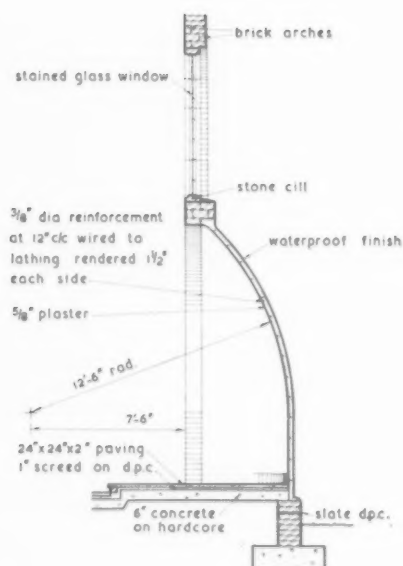
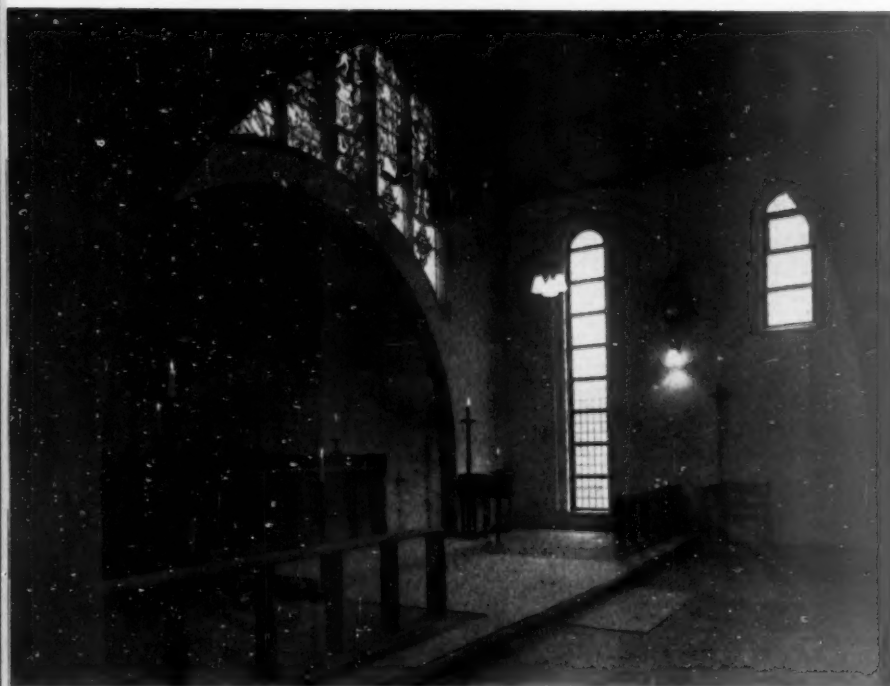
laminations screwed and bolted together. These trusses are connected laterally by timber purlins at 2ft centres, which support the wood wool slabs. Trusses are clear varnished and the soffit of the wood wool slabs is colour-washed white. The internal surface of the brickwork is finished with a cement slurry, colourwashed white. The internal walls of the parsonages are plastered.

Softwood has been used for the joinery except for the





Typical Section, St. Francis, Horn Lane



The Apse at St. Francis is painted gold

Two Church Centres, S.E. London

main entrance doors of the Churches, which are of oak, with an oiled finish. The East window of the Church at Mottingham has a stone frame, while that at Horn Park is of precast concrete. Both these windows have stained glass, which was part of the War Damage replacement. Heating in both Churches is by gas radiant panels.

The Mottingham parsonage has a gas-fired water storage heater, while that at Horn Park has a solid fuel domestic boiler.

The two buildings were built at the same time by the same contractor. This combination produced a saving of time and labour and both contracts were completed

General Contractors :

Walker (Tooting) Ltd.

Subcontractors :

Electric Light Fittings :

Allom Bros.
Ascog, Ltd.
Crompton Parkinson, Ltd.
Merchant Adventurers of London, Ltd.

Flooring :

E. J. Elgood (Wood Block).
Limmer & Trinidad Lake Asphalt Co., Ltd.
(Accotiles).

Furnishings :

Oetzmann & Co., Ltd.

Glascrete Windows :

J. A. King & Co., Ltd. (St. Alban the Martyr).

Gutters : Finlock Gutters, Ltd.

Joinery : R. J. Lakin & Co.

Masonry Windows :

Cotswold Dale Stone Co., Ltd. (St. Francis).

Organ : Cedric Arnold.

Pre-Stressed Reinforced Concrete Beams :

Pierhead, Ltd.

Roof Covering :

The Ruberoid Company, Ltd.

Sanitary Fittings :

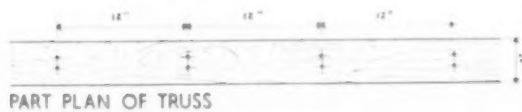
Broad & Company, Ltd.

Stained Glass Artists :

Barton Kinder and Alderson (St. Francis).
W. T. Carter Shapland (St. Alban).

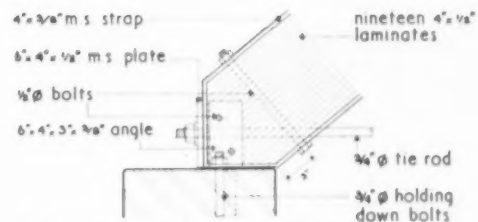


Typical details of main roof

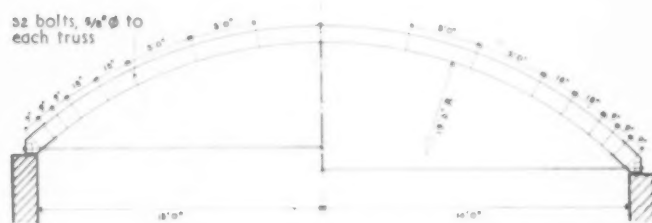


PART ELEVATION

1 1/2\" screws, in pairs set 1 1/2\" from outer edges of truss

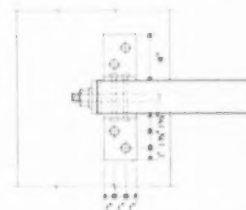


ELEVATION OF FOOT OF TRUSS



HALF ELEVATION of coldharbour trusses

HALF ELEVATION of horn park trusses



PLAN

laminates of random lengths, butt-jointed
all edges are hand-wrot after assembly

Detail of truss

and the churches dedicated within a week of one another. The contract prices including parsonages were: for Mottingham, £15,750 (2.9 per ft. cube), and for Horn Park, £18,750.





Church & Presbytery of St. Mary & St. Joseph, Canton Street, Poplar

Architect: A. GILBERT SCOTT.

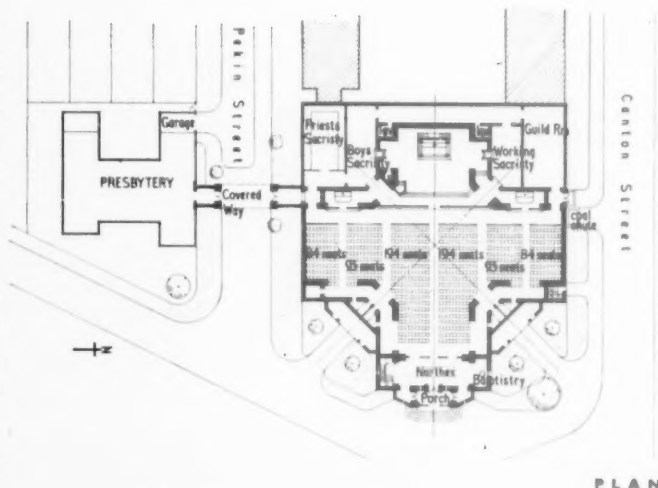
C.B.E., M.C., F.R.I.B.A.

THE existence of this large new Church, which will soon be completed inside, is due to the lucky chance that the sites of the old and new Churches happened to be in the centre of the new "Lansbury" area of dockland chosen by the L.C.C. to be rebuilt and which formed part of the "Festival of Britain" Exhibition.

This enabled a building licence to be issued without affecting the Church Quota allocation. The old stone Church was totally destroyed in the blitz and a new site was allocated by the L.C.C. in exchange for the old. The cost of the new Church is mostly covered by the War Damage Commission Church Payment, but the cost of the adjoining Presbytery and site is being borne by the Diocese as only a small value payment was received for the old Presbytery destroyed in the blitz.

The new Church, which will seat about 800, the same as the old, is faced externally in 2in yellow facing bricks from Leicestershire to blend in with the London Stock bricks of the adjoining L.C.C. housing scheme, and is roofed in brown "Lombardic" tiles.

The main contractors are John Mowlem & Co., the cost of the works will be approximately £150,000.



PLAN

A New Bank in Norwich

architects :

EDWARD BOARDMAN & SON

THESE new premises for Barclays Bank Ltd., face on to Orford Place, Norwich. The two entrances are for the Bank and the existing offices over. The new ground-floor front is mainly of Bath stone, which will weather to match the same stone above. The cornice, canopies, mouldings, sills and similar details are picked out in Portland Stone, which in due course will weather much whiter than the Bath stone. Panels under the windows and the plinth are of Aberdeen granite, while the bottom course is of Guiting from Somerset. The doors are of African Walnut with white Sycamore mouldings and Mahogany frames. Ironmongery is of bronze and the Heraldic Eagle door knockers were specially designed.

Banking Hall

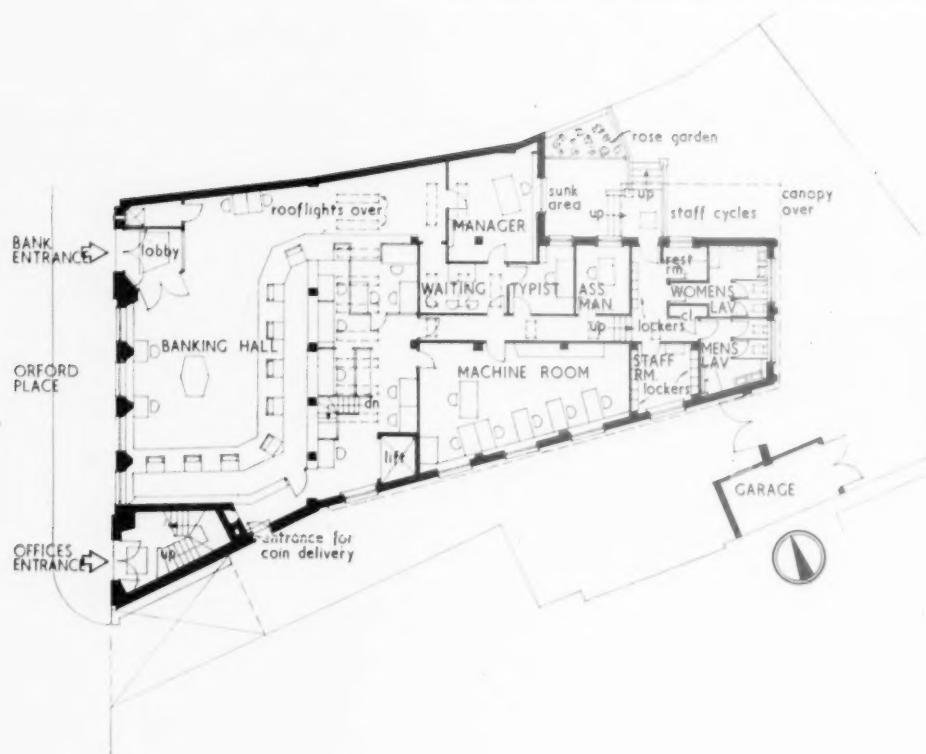
The panelling is in general of moulded boards (modern linenfold) of African Walnut with horizontal bands of White Sycamore treated with special dirt-resisting polish (Phenoglaze). The narrow band under the counter and the plywood panels are of Black American Walnut. The counter is of matt cigarette-proof Formica in Bleached Mahogany. The cashiers' desks have Lagos Mahogany panelling to contrast with the background of Walnut. The joinery fittings are also of the above materials. The floor behind the cashiers is of



The Banking Hall through the entrance lobby doors.

The new front to the ground floor.





GROUND PLAN. SCALE: 1 in = 24 ft

A New Bank in Norwich

Rhodesian Teak and elsewhere 12 in. x 3 in. Oak blocks have been used.

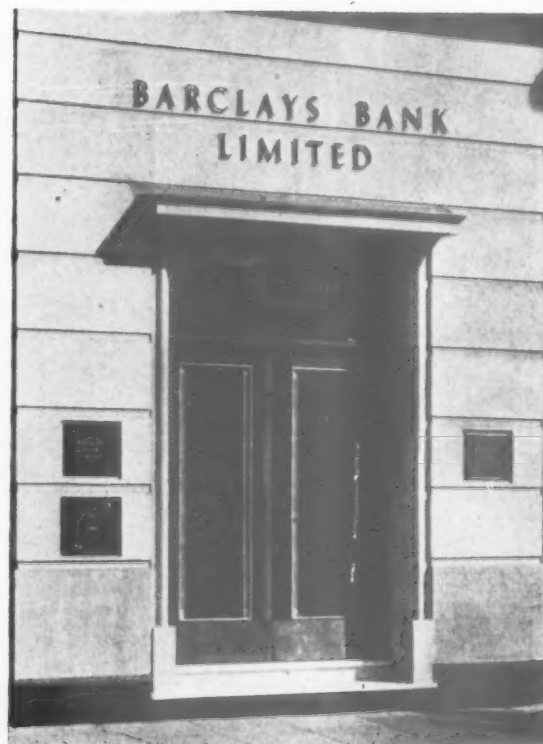
The floor in the main hall is of Portuguese Beige Marble with a Napoleon Fleury border and Black Belgian Marble skirting. Ironmongery is of Bronze. The clock is of the battery impulse type.

Lighting is by spotlights over the counter with diffused general light from the special fittings in the centre and the cold cathode cornice. The total intensity is 25 lumens at working height.

Manager's Office

Here the panelling is of white Sycamore veneer and is designed to contrast with the moulded panelling in the Banking Hall. The remaining joinery is in African Walnut. Chairs are covered in Blue Vaumol leather. Lighting is by an indirect Cold Cathode cornice and a desk light.

Main entrance to the Bank. The entrance is repeated on the other side for access to upper floor offices. Doors are of African Walnut with white Sycamore mouldings and Mahogany frames.





Banking Hall, showing part of the S-shaped counter with screens to cashiers' desks in Walnut and white Sycamore.



Behind the counter in the Banking Hall. Tops of cashiers' desks are lino covered and lift up.



Desk in the Manager's office.

A New Bank in Norwich

architects :

E. BOARDMAN & SON

General Contractors:
Thomas Gill & Son Ltd.

Writing tables for clients, Banking Hall.

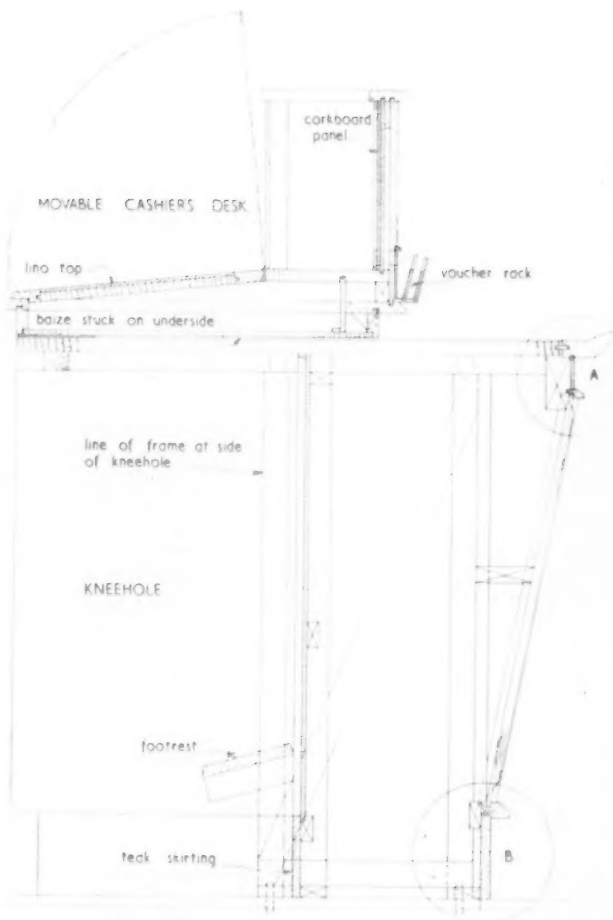


Drawer units behind Banking Hall counter.

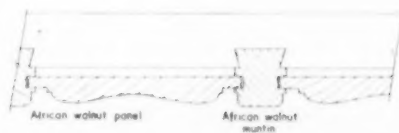
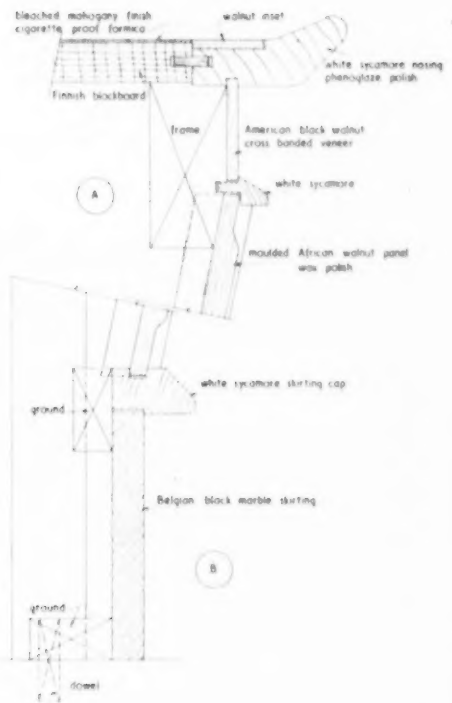
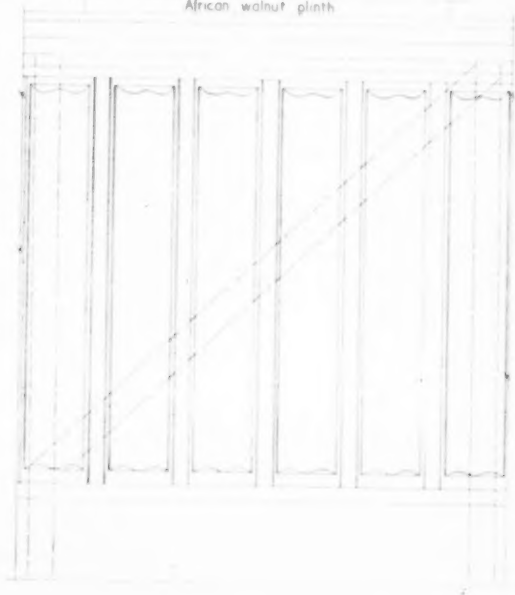
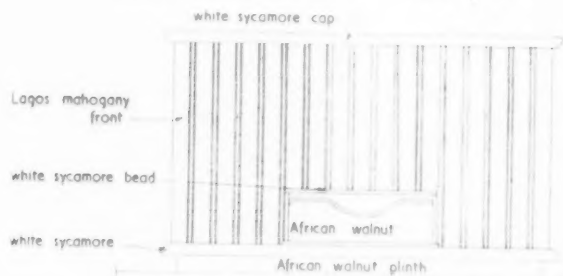


Subcontractors :

Asphalt Tanking to Strong Room & Roof : Limmer & Trinidad Lake Asphalt Co., Ltd.
Blinds : Avery's (Est. 1834), Ltd. Bronze Eagles : Morris Singer & Co., Ltd. Bronze
Fumants, Matwells : Heatrac, Ltd. Bronze Plates & Grilles : Dryad Metal Works, Ltd.
Bullion Lift : Evans Lifts, Ltd. Carpet : Wallace King, Ltd. Chairs & Curtains : Trevor
Page & Co., Ltd. Clock : Baume & Co., Ltd. Cold Cathode Cornice : Ionlite, Ltd.
Electrical Installation : Eastern Electricity Board. Gas Fires : Eastern Gas Board. Gates &
Railings : Francis Dudley & Co. Glazing : G. Wilson (Glaziers), Ltd. Heating Installation :
W. Freer, Ltd. Ironmongery : Yannedis & Co., Ltd. Joinery : J. Youngs & Son, Ltd.
Light Fittings : Ionlite, Ltd.; Falk Stadelmann & Co., Ltd.; Merchant Adventurers of
London, Ltd.; Fredk. Thomas & Co., Ltd. Marble Floor & Skirtings : Art Pavements &
Decorations, Ltd. Night Safe : Chubb & Son's Lock & Safe Co., Ltd. Painting : Reid's
Norwich, Ltd. Panelling, Flush Doors & Handrailing to Staircase : Frazer's Joinery Co.,
Ltd. Plastering & Tiling : Crotch & Son, Ltd. Plate & Etched Glass : John Hall & Son,
Ltd. Plumbing : W. J. & F. Taylor, Ltd. Precast Stairs : Gillingstone, Ltd. Roof Lights :
Lencroft, Ltd. Stone Front & Dressings, Marble Cills : A. J. Woods & Sons. Strong
Room Doors : Milners Safe Co., Ltd. Strong Room Partitions & Stair Balustrading :
Burnes & Pye, Ltd. Structural Steel : Dawsons, Ltd. Windows : Crittall Manufacturing
Co., Ltd. Window Control Gear : Arens Controls, Ltd. Wire Baskets : Norwich Premier
Wire Co. Wood Block Floors : Bennett's Wood Flooring, Ltd.



Scales: 1 ft = 1 in and $\frac{1}{2}$ F.S.



Details of Banking Hall Counter.



POINTS FROM PAPERS

Proportion and Symmetry in Relation to Modular Co-ordination

A Paper read to the Modular Society by Sergei Kadleigh, A.R.I.B.A., A.A.Dipl., on December 16, at the Royal Society of Arts

THE purpose of this short paper is to provide a general introduction to proportion and symmetry in the art of architecture, from which more detailed studies of the relationship of these basic principles to modular co-ordination may be developed. The word symmetry is, of course, used in its architectural and scientific sense, and not in its popular reference to rigidly identical forms about a central axis. The paper is limited in this way because obviously the results of detailed investigations on this subject, both from the many sources in existence and from original research, would require a series of papers spread over a considerable period of time. This paper then merely introduces a vast territory, ripe for exploration.

The art of architecture is not the same as the technique and craftsmanship of building, although the two are frequently confused; the one is often assumed to be merely the extension of the other. Both, it is true, require a thorough practical knowledge of applied science, as was clearly demonstrated at the recent Building Exhibition. But no amount of perfecting the technique of building will bring us any nearer to the art of architecture, just as no amount of measuring and analysing the materials of a work of art will bring us any nearer to understanding why the artist designed it in the way he did. The two are different, and whereas the art includes the technique, the technique cannot reach the art as many things are missing.

Amongst the most important of those things which are missing are a knowledge of pure science—the science of space—and a knowledge of its meaning—philosophy. In architecture these two branches of knowledge find expression in the proportion and symmetry with which the technique of building is applied. We may perhaps say that it is the addition of this knowledge which distinguishes architecture from building, and it is the understanding of this knowledge which makes it possible for architecture to become an art.

Let us consider for a moment some of the things that science tells us about space. We normally think of space as being a sort of nothing in which solid things exist. If we look at this nothing which we call air, through the medium of chemical analysis, we see that it is by no means nothing, but is full of many different material substances. Similarly, the things we call solid objects, when seen through the more

powerful eyes of science, appear no more solid than the air. So the solidity of things is a relative term. All we can safely say is that space is full of different kinds of material whether seen by us as solid or void.

How these different materials are organized into the forms of natural phenomena, be they what is called living or dead, is another subject upon which science has a great deal to tell us. Basically, we are told that material is organized into atoms of various elements, arranged in geometric lattices to form molecules. These molecules determine the nature of the minerals and crystals of non-living matter and the cells which form the basis of living matter. Consequently, we may perhaps say that in space material is organized into four main worlds of matter, atomic, molecular, cellular and mineral. We are also told by science that the quality of a given substance is determined, not so much by its ingredients as by the geometry of its molecular structure. Furthermore, we know from scientific investigation, that the geometry of molecular lattices is based on simple regular and semi-regular polyhedra obeying the theories of group symmetry.

Now the principle governing the structure of all material classed as non-living, is known by science as the "Principle of least action." This means in a general way that to produce a state of equilibrium in a material requires a balancing of stresses and equilibrium of surface energy, obtained with the greatest economy of work or resistance. In other words, the structure must show the maximum economy by producing the greatest volume for the least surface area. It has been established through investigation, that this principle is rigorously obeyed in the molecular geometry of all such material. This geometry in nature is confined to those regular and semi-regular polyhedra which have the necessary space-filling properties, such as cubic, hexagonal and cuboctahedric.

If we now turn to materials classed as living, we find that the equivalent principle governing their structure is known by science as the "Law of Entropy." This law is, of course, to do with energy, and concerns us in its connection with the changes of state of a living organism, such as in the process of growth. Growth may perhaps be said to represent a creature repeating its own physical shape by accretions or pulsations in an ordered manner in space. Scientists investigating the growth of living organisms have found that the nearest mathematical formulas

with which growth can be calculated are based on the geometric spiral and its properties. The expression of this in the Fibonacci Series is, of course, widely known and used. Now the molecular structure of living organisms also obeys geometric principles. It would be natural, therefore, to expect the existence of regular or semi-regular polyhedra with properties of repeating their own physical shape by ordered accretions or pulsations in space, and having a direct affinity with the spiral. Such polyhedra do in fact exist, notably the reciprocating Dodecahedron and Isohedron, with their close relationship to the Golden Mean proportion, and hence the spiral of growth.

From this brief survey we have a general very schematic view of the science of space. This is one of the branches of knowledge mentioned previously as being a necessary addition to the applied science of building technique, to raise building to the level of architecture.

Now we come to the other branch of knowledge, mentioned as being equally necessary to architecture; Philosophy. It is philosophy which gives meaning to the science of space.

As we are primarily concerned with the concepts of proportion and symmetry, our study of this branch of knowledge might reasonably start from the philosophical source of these concepts in our civilization, namely Pythagorean philosophy as conveyed by Plato.

Between 400 and 300 B.C., Plato wrote in the "Timaeus" of the creation of the universe and the creation of the soul. Let us first take the description of how the cosmos of the universe was created out of the chaos of matter. The ordering consists of arranging all the basic materials of which space is composed, into four main levels of matter which were called fire, air, water and earth (these ancient divisions of matter correspond strangely with our present scientific terms, atomic, molecular, cellular and mineral). These four levels of matter were considered to exist in a permanent relationship to each other. This relationship was expressed in a geometric proportion known as the "Golden Mean." So we have the philosophical concept of all the materials of space being organized into a hierarchy of four different levels, in a "Golden Mean" geometric proportion.

Plato goes on to ascribe to each of these four levels of matter a corresponding figure in solid geometry, and a fifth regular polyhedron to represent the whole cosmos itself. These poly-

hedra are the celebrated "Five Platonic Bodies" with which you are, no doubt, familiar. In addition to this, there were a further thirteen semi-regular polyhedra known as the "Archimedean Solids" which were also studied in a similar context. It is interesting to note that all the solid geometric figures mentioned previously in connection with the molecular structure of living and non-living matter when discussing the science of space, are contained in the "Five Platonic Bodies" and the "Archimedean Solids."

Let us turn now to the description in the "Timaeus" of the creation of the intangible and invisible soul as opposed to the tangible and visible universe. Plato describes how unity and diversity were first blended together to form one organism through the agency of an intermediary level. He then goes on to describe the exact proportions in which this three-fold organism is distributed throughout the universe, so that the tangible universe should be blessed with the guidance of an invisible and intangible soul. This ordering is well known in the form of the Platonic "Lambda." First the three-fold organism is distributed in two series of geometric proportions springing from the same root-unity. Next the intervals in both of these series of proportions are filled with "harmonic" and "arithmetic" means, giving a series of intervals of $3/2$, $4/3$ and $9/8$. Finally, the $4/3$ intervals are filled with $9/8$ intervals and the fraction $256/243$ left over. The result is a series of 34 numerical terms linked in geometric, arithmetic and harmonic proportion.

Now Number can, of course, be expressed in many different ways. If we translate these numerical symbols into vibrations, we find that when strings of lengths corresponding to these 34 terms are vibrated, they emit the notes of the musical scale of a major sixth, having a compass of four octaves. In other words, this whole system of proportions is the basis of musical harmony and is still used to-day in western music with little variation.

If we translate the same symbols into geometry, we find that together with the "Five Platonic Bodies" and the "Archimedean Solids" we have the basis of symmetry used by architects up till about 200 years ago and now found useful by scientists in their investigations into the geometry of space. To quote Bertrand Russell, "Perhaps the oddest thing about modern science is its return to Pythagoreanism."

This brief description perhaps gives some small indication of the second kind of knowledge which must be added to building before it can be considered as architecture. Now meaning lies hidden behind each level of this knowledge, and the search to uncover and understand this meaning is the material, which if added to architecture, makes it possible for it to attain the level known as art.

All this indicates many fruitful fields for related investigation. On the level of building technique, we know that

the Building Industry has been manufacturing components of certain standard sizes for some time. This had developed, naturally, from the pressure of necessity and economy. The next and obvious step in this process is to reduce these standard sizes to a practical minimum, in order to achieve the greatest economy. This has already started with the forming of the Modular Society. There is much to be done in analysing plans and sections, interchangeability of materials and components, methods of erection, manufacturing processes, practical size and weight limits, transport packaging, methods of jointing, permissible tolerances, length of life and so on. All this necessary field of investigation is, of course, to do with the application of applied science, including statistics, to the technique and craftsmanship of building. If we are only interested in the speed and economy with which we can put up efficient buildings, then possibly this field of investigation is sufficient. But if we are also concerned with the quality of the buildings we build, then it is necessary to add another level of investigation.

This additional level we may, perhaps, call the level of pure science and philosophy. In this field of investigation there is as much to be done as in the previous field, if not more. The geometry of space with its roots in pure science on the one hand and philosophy on the other has to be explored. The results of such investigations can then become the material from which concepts of proportional symmetry may be evolved. Such concepts might then be applied to the results of investigations on building technique. This would give the added possibility of taking the quality of a building into account as well as its economy in determining a system of modular co-ordination.

In conclusion, I should like to mention one other aspect of this general subject. What a building is, the reasons for building it, and the necessity and the desire of its existence, are all factors which also play a part in influencing the quality of a building; but in a different way to those we have been discussing. Nevertheless, their role cannot be overestimated. This paper has been concerned with *how* to build with reference to the quality of a building; but there is still the whole vast question of *what* to build, which we are a very long way from answering. It is obviously necessary to apply the right methods to the right object. In other words, it is necessary to apply the technique of building with proportion and symmetry to the kind of structures, whose necessity and desirability at this present time in our history is not open to reasonable doubt. In this field, the speed of progress has now become the speed of legislation, and we still have a very long way to go to catch up with history, let alone plan for the future. Let us hope that our pace will be commensurate with our needs.

The City and Guilds of London Institute's Insignia Award in Technology

THE Insignia Award in Technology was established by the Council of the City and Guilds of London Institute some twelve months ago to provide a high qualification for persons in industry whose initial training was based primarily upon practical experience combined with theoretical study and who, having gained appropriate City and Guilds' certificates as craftsmen or technicians, have now advanced in their industry by a combination of progressive experience and further study.

A candidate upon whom "The City and Guilds of London Institute's Insignia Award in Technology" is conferred will receive a Warrant specifying thereon the section of industry and the branch of technology in which his knowledge and skill are recognised, and under the Institute's Royal Charter he will be authorized to use the insignia letters "C.G.I.A." A register of Insignia Awards must be maintained by the Institute.

The Regulations state that a candidate must be at least thirty years of age and be sponsored by three referees of appropriate standing. He must have been apprenticed or otherwise suitably trained in his industry; he must hold relevant Full Technological Certificates of the Institute, and have had a minimum of seven years' progressive experience in his industry. He is then required to write a thesis of some 10,000 to 20,000 words on a technological topic associated with his work, which must show that the candidate is acquainted with the current practice and problems of his industry at "technological" level. Finally, if this thesis is reported upon satisfactorily by the Assessor appointed by the Institute, the candidate is required to appear for interview before an *ad hoc* Panel nominated by the Institute for this purpose. The Insignia Award Committee, on the recommendation of the Panel, will then make its final decision as to the Award, subject to ratification by the Council of the Institute.

Candidates are considered in terms of five broad industrial groups, namely: chemical industries, constructional industries, electrical industries, mechanical industries and textile industries. A strong Committee includes two representatives from each of these sections of industry, together with co-opted members.

A copy of the Regulations governing the Award, together with Notes for the Guidance of Candidates, will be sent to any enquirer on application to: The Director, Department of Technology (I.A.), City and Guilds of London Institute, 31, Brechin Place, London, S.W.7.

Notes from the Minutes of the R.I.B.A. Council Meeting held on December 8

Appointments

(A) *Ministry of Housing and Local Government Housing Medals, 1954.*

By arrangement with the Ministry, the following members were appointed as Chairman of the Regional Awards Committees: No. 1, Northern: C. W. C. Needham. No. 2, E. and W. Ridings: Noel Pyman. No. 3, North Midland: Stephen Welsh. No. 4: Eastern: E. C. R. Sandon. No. 5, London: Sir Charles Mole. No. 6, Southern: R. F. Gutteridge. No. 7, South Western: Robert Potter. No. 8, Wales: C. F. Bates. No. 9, Midland: A. G. Sheppard Fidler. No. 10, North Western: G. Grenfell Baines. No. 12, South Eastern: R. W. Paine.

The following architect members of the London Regional Awards Committee were also appointed: G. A. Jellicoe, Miss J. G. Ledeboer, Peter Shephard.

(B) *R.I.B.A. Representatives on B.S.I. Committees*

STB/-: Natural Stone and Quarry Products Industry Standards Committee; B/80: Lintels and Copings; B/80/3: Natural Stone Sills and Lintels—H. E. D. Adamson; HIB/-: Hardware and Ironmongery Industry Standards Committee; HIB/12: Metal Windows and Doors; HIB/12/1: Metal Finishes; HIB/12/2: Aluminium Alloy Windows—Lister P. Rees, in place of T. Bilbow and F. R. Pite.

The Honorary Fellowship

The Right Hon. The Earl of Halifax, K.G., has accepted the Council's nomination for election as an Honorary Fellow.

The Honorary Associateship

Professor J. F. Baker, Mrs. M. A. Montgomery and Sir Arthur Trueman have accepted the Council's nomination for election as Honorary Associates.

Sessional Paper, 2nd March, 1954

Arrangements have been made for a paper entitled "English Villas and Venetian Decorators" to be given by Mr. F. J. B. Watson, F.S.A., Deputy Keeper of the Wallace Collection, in place of the paper previously announced to be given by Professor Charles Madge, who was unable to accept this engagement.

British Architects' Conference, 1955

The Council accepted a formal invitation from the West Yorkshire Society of Architects to hold the British Architects' Conference at Harrogate in 1955, and expressed their cordial appreciation of this invitation.

Architectural Education Joint Committee.

The Chairman of the Board of Architectural Education reported that an Interim Report of the Architectural Education Joint Committee had been

considered, and submitted a recommendation that the principle that all candidates for the Associateship, R.I.B.A., should be required to pass examinations in uniform lists of subjects be reaffirmed. He reported that the Board had considered lists of subjects put forward by the Joint Committee and had instructed them to make certain amendments and to arrange for the preparation of detailed syllabuses and prototype examination papers. The Council took note of this report and gave approval to the recommendation.

R.I.B.A. Scale of Professional Charges

On the recommendation of the Practice Committee, the Council approved a comprehensive revision of the R.I.B.A. Scale of Professional Charges, to be known in future as the "Conditions of Engagement and Scale of Professional Charges," and authorized the publication of the revised draft scale for comment by the general body of members prior to formal confirmation of the scale.

Standardization of Trade Literature

On the recommendation of the Science Committee, it was agreed to draw the attention of members to the advantages of standardized sizes, shape and layout of technical trade literature and to advise members to press manufacturers and suppliers of building materials who submitted brochures, pamphlets, etc., to adopt the recommendations made by the British Standards Institution in B.S.1311:1946.

Report of the Ad-hoc Committee on Private Architectural Practice by Unqualified Persons

The Council completed their study of the report on Private Architectural Practice by Unqualified Persons and considered a number of observations made on matters in the report by various standing Committees of the Institute. It was agreed to publish the report in the R.I.B.A. Journal for the information of members, and approval was given to the implementation of a number of recommendations made by the Committee.

Form of Application for the Appointment of an Arbitrator

The Council's attention was drawn by the Practice Committee to the inconvenience caused to members appointed as arbitrators by the immediate settlement of the dispute between the parties while the preliminaries for the arbitration were in progress.

On the Committee's recommendation, it was agreed to make provision for the settlement of the arbitrator's initial expenses by a revision of the undertaking on the form of application for the appointment of an arbitrator, which will in future read as follows:

"I/We jointly and severally agree to provide adequate security for the due payment of any fees, costs and expenses of the Arbitrator in connection with this application and the

Arbitration and to take up the Award within ten days from receipt of notice of publication."

R.I.B.A. Form of Agreement for General Use between a Building Owner and a Firm of Architects.

The Council approved a recommendation of the Practice Committee that the Form of Agreement for general use between a Building Owner and a Firm of Architects should be published in two editions, one applicable to a building owner other than a statutory authority and the second applicable to a building owner who is a statutory authority.

Lecture Course on Prestressed Concrete

A course of nine lectures on Prestressed Concrete will be held on Thursday afternoons from 4 p.m. to 5.30 p.m. commencing on Thursday, January 14, 1954, at University College, London: Faculty of Engineering, Department of Civil and Municipal Engineering.

This course will include lectures on the Principles of Prestressed Concrete Design and also lectures by engineers who are concerned with the various specialist systems of prestressing.

Practical demonstrations will be arranged during the course on three Saturday mornings, at the research laboratories of the Cement and Concrete Association, Wexham Springs, Stoke Poges, Bucks. The course is at post-graduate level and is intended for qualified civil and structural engineers. Applications should be made by January 7 to: Professor H. John Collins, M.C., M.Sc., Department of Civil and Municipal Engineering, University College, London, Gower Street, W.C.1.

Applicants should state their academic and/or professional qualifications when applying. No fee will be charged for the course.

At the last conference of the International Union of Testing and Research Laboratories for Materials and Structures (R.I.L.E.M.) it was decided to organize in Paris an International Symposium on the "Non-destructive Testing of Concrete." It will be held at the Laboratoires du Bâtiment et des Travaux Publics, 12 rue Brancion, Paris XV^e on January 11, 12 and 13, 1954. Two days will be devoted to the reading of papers and the third to discussions and conclusions.

Readers interested in attending the Symposium should communicate with Mr. Robert L'Hermite at the above address.

The L.M.B.A. has sent donations of ten guineas each to the Apprentices' Prize Fund of the London Association of Master Stonemasons and the Pension Fund of the Provident Institution of Builders' Foremen and Clerks of Works.

A FOLDING PARTITION IN A SCHOOL

or

A Novel Method of Separating One Classroom from Another



Being a detail from 'The Modern Carpenter and Joiner and Cabinet-Maker' (1904) a complete guide to modern practice with acknowledgements to G. Lister Sutcliffe, A.R.I.B.A.

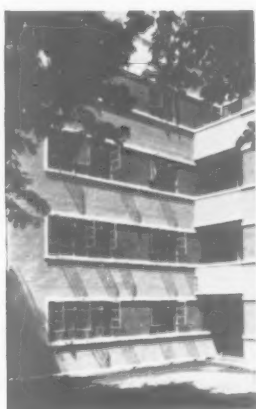


WE would commend to your earnest attention this detail from yet another school, continuing in our tradition of aesthetic and functional construction. It is however, of particular interest in showing, if not an entirely new conception of the wall, at least one that has hitherto received little attention.

The folding sliding partition or screen ensures that the writing class does not infringe upon the reading or arithmetic classes or vice versa. Our gentle reader will at once notice the many sound and economical aspects of this particular example, such as the fact that the partition extends almost to the full ceiling height (nearly fifteen feet); which is a much recommended minimum for such establishments; and also that as the lower portion of the classroom elevation is flush boarded it may conveniently serve as a blackboard. One feels that perhaps the use of coloured leaded lights of a suitable edifying pictorial subject would admirably set off the dark varnish on the yellow pine wood, and lend a note of brightness to the whole building.

In view of the newly awakened interest in "High Victorian" design, this authentic detail should be of considerable interest and help to those fostering an architectural Victorian revival.

CRITTALL WINDOWS



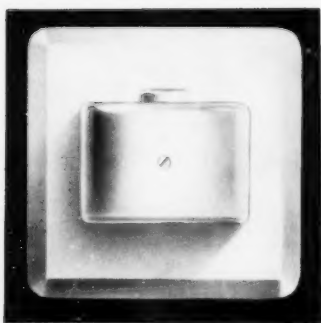
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Information Digest

- **Building Handbook.** Issued by British Standards Institution, British Standards House, 2, Park Street, London, W.1. Mayfair 9000. Price 30/-.

British Standard Handbook No. 3, 1953, which is now available contains summaries of all British Standards dealing with building materials and components for housing. This is a most valuable publication and has been re-arranged so that the summaries are collected into the different sections which deal with related specifications. This publication is one which should be in every office and should make the use of British Standards a simpler matter.

- **British Standard Specification No. 690: 1953. Asbestos-Cement Slates and Sheets.** Issued by British Standards Institution. Price 4/-.

This Standard was first published in 1936 and has been revised several times since that date. The latest edition takes into account present-day practice in the manufacture and use of asbestos cement slates, flat sheets and corrugated sheets. The standard is set out in the usual way and contains a series of tables giving dimensions and other information. The appendices cover tests and recommendations for use of unreinforced corrugated sheets.

- **House Insulation No. 34.** Issued by H.M.S.O., York House, Kingsway, W.C.2. Price 3d.

This leaflet is one of the Ministry of Works Advisory Leaflets, and deals with the methods of thermal insulation which can be used for houses to increase comfort. Various types of insulating materials are described with illustrations on how to install them. Simple advice is given in relation to the insulation of existing houses in a way which can be easily understood by the small builder and craftsman.

- **Age and Employment.** Published by Ministry of Labour and National Service, 8 St. James's Square, S.W.1. Free.

This booklet is based on the first report of the National Advisory Committee on the Employment of older men and women. It outlines some of the matters discussed in the report and gives recommendations put forward by the Committee to improve employment prospects of older people. The leaflet is illustrated by means of statistical diagrams.

- **National Building Studies. Research Paper No. 18—Investigations on building fires. Part VI.** Issued by H.M.S.O. Price 3/-.

This section of the series on fire resistance and related problems describes an investigation of the relationships of the fire resistance of reinforced concrete columns and the applied load, the concrete strength, column size and the design of the reinforcement. The investigation covers also the use of various aggregates and the feasibility of assessing fire resistance from the results of small scale tests of concrete cylinders.

- **Building Research Station Digests. No. 58 and 59.** Published by H.M.S.O. Price 3d. each.

No. 58. Wall and Ceiling Surfaces and Condensation.

This Digest deals with the problems of condensation on walls and ceilings classifying the severity of condensation conditions, outlining the properties required of finishes to meet these conditions, and suggesting treatments for walls and ceilings and roofs. A useful table is included giving the properties of various paints in relation to condensation.

No. 59. The use of hardwoods in building.

The question of the new types of hardwood now widely imported is dealt with in this Digest which records the more common types, their properties and the purposes in building work which each is best suited. The Digest gives some very useful general information regarding hardwood and its use, and then tabulates a series of African and other hardwoods.

PROFESSIONAL AND TRADE ASSOCIATION PUBLICATIONS

- **Year Book of the Heating and Ventilating Industry.** Published by Technitrade Journals Ltd., 8, Southampton Row, London, W.C.1. Chancery 7676 and 7749. Price 7/6.

This Year Book has been issued in collaboration with the Association of Heating and Ventilating and Domestic Engineering Employers. It contains a useful article on panel heating, together with various reports of recent developments in heating practice, an index of trade literature, extracts from model byelaws and the register of the members of the association.

- **Annual Report 1952-1953 of the National Trust.** Issued by the National Trust, 42, Queen Anne's Gate, London, S.W.1. Whitehall 0211. Free.

This report gives details of the work of the National Trust, its financial accounts, a list of benefactors and details of new properties acquired or opened since the last report. Details of committees and their members are also included.

- **Eighth Annual Report of the Council of Industrial Design.** Issued by H.M.S.O. Price 1/6.

The 1952-53 report of the C.O.I.D. details the activities of the Council over the past year, and illustrates by photographs some of the work with which it has been concerned, including the work of industrial designers in a wide field.

- **Recommended Domestic Solid Fuel Appliances.** Issued by the Coal Utilisation Council, 3, Upper Belgrave Street, London, S.W.1. Sloane 9116. Price 6d.

This list No. 7, July, 1953, cancels the previous list of recommended solid fuel appliances No. 6 and has been prepared in consultation with the Ministry of Fuel and Power. It gives details of all domestic solid fuel appliances which comply with prescribed standards of efficiency and also provides information about the types of fuel suitable for them. Names and addresses of manufacturers are also listed.

- **List of Domestic Electrical Appliances.** Issued by the British Electrical Development Association, 2, Savoy Hill, London, W.C.2. Price unstated.

This list No. 1, published at the request of the Ministry of Fuel and Power, details the tested domestic electrical appliances which have been technically approved by all Area Electricity Boards. It is suggested by the Ministry that appliances for housing accommodation should be selected from this list. Suppliers' names only are included and no indication is given of price or any other details.

- **E.D.A. Testing House.** Issued by B.E.D.A., 2, Savoy Hill, London, W.C.2. Free.

On Monday, October 5, 1953, Sir Henry Self opened the new E.D.A. Testing House at Leatherhead, designed by Bucknell & Ellis. This booklet gives a full review of the building, including plans and photographs, and gives information concerning the various testing laboratories and the equipment available.

- **C.P.R.E. Lancashire Branch, Annual Report 1952-1953.** Issued by the C.P.R.E., County Hall, Preston. Free.

This annual report gives details of the year's work of the Lancashire Branch of the C.P.R.E., listing donors and subscribers, giving the accounts for the year, and a general review illustrated by photographs of the work done by the Society.

- **How to insulate buildings.** Issued by the Structural Insulation Association, 32, Queen Anne's Gate, London, W.1. Langham 7616. Free.

The seventh edition of this booklet gives a series of tables showing the insulation value of a wide variety of materials, gives details of the materials including sizes, how they are supplied, etc.

INFORMATION DIGEST

- **Your New Home.** Issued by the Gas Council, 1, Grosvenor Place, London, S.W.1. Sloane 4554. Free.

The Gas Council's latest popular publication illustrates the use of gas in the average home, by means of photographs and non-technical text. While this sort of publication is obviously of use to the layman, its value would be increased if some indication were given concerning the running costs of the various pieces of equipment recommended.

- **T.D.A. Quarterly Review.** Issued by the Timber Development Association Ltd., 21, College Hill, London, E.C.4. Free.

An interesting article is included in this issue of the Quarterly Review on the use of wood in churches. All the illustrations are of American buildings, mainly constructed with timber 3-pin arches. Other articles include one on the use of hardwood in the reconstruction of Marconi House, an article on glued timber roof trusses, and a long descriptive article on the T.D.A. rigid frames which formed the central feature of the Association's stand at the recent Building Exhibition.

TRADE PUBLICATIONS

- **Aluminium News.** Issued by Aluminium Union Ltd., The Adelphi, Strand, London, W.C.2. Free.

The August issue of this publication gives details of the Frenger system of heating which has been mentioned previously in this digest. Illustrations show the system being installed and also a completed installation in London. The majority of the other items included in the publication are of little interest to architects.

- **T-Panel.** Issued by Woolaway Constructions Ltd., 11, Cannon Street, Taunton. Taunton 4496. Free.

This brochure illustrates a precast lightweight concrete unit construction system for small buildings of single storey, such as garages, sheds and small workshops. The system appears to be simple and straightforward and with care should be capable of being used to produce buildings of a reasonable appearance.

- **Installing Waverite.** Issued by Waverite Ltd., Ware, Herts. London Sales Office, 12/16, Grosvenor Gardens, London, S.W.1. Sloane 0898. Free.

Details are given in this brochure of the recommended methods of using Waverite for a wide variety of purposes. Details are given of the fixings required and the method of erection. The publication is illustrated with photographs and diagrams.

- **Visual Aid for Industry.** Issued by the British Optical & Precision Engineers Ltd., Mortimer House, 37-41, Mortimer Street, London, W.1. Museum 5432. Free.

This booklet has been published as part of the campaign for the education of industry regarding the use of visual aids. In it are set out some of the many ways in which film can be of value to both industry and commerce.

- **The Place of Glass in Industry.** Published by Pilkington Bros. Ltd., Selwyn House, Cleveland Row, St. James's, London, S.W.1. Whitehall 5672-76. Free.

Glass in some 20 different industries is illustrated in the new Pilkington booklet, and some of the uses are unusual, for example the coal bunkers lined with Vitrolite and the coal chutes lined with rough cast glass, suggest new uses for glass which will warrant serious consideration, particularly the Vitrolite-lined coal chute at the Ravenhead Colliery, which was in use for 6 years without any noticeable surface wear, and during that time nearly 1,000,000 tons of coal passed down it.

- **Moulded Plastics for Industry.** Issued by The General Electric Co. Ltd., Magnet House, Kingsway, London, W.C.2. Temple Bar 8000. Free.

The G.E.C. is able to undertake every type of plastic moulding job because of the range of presses available in its works, and this booklet shows the wide variety of articles produced by the Company, which range from radio and television set cases to intricate shapes for the electrical industry.

- **The Stramit Advertiser.** Issued by Stramit.

Stramit is now a very widely used material and this issue of the firm's broad sheet includes photographs of the Westminster Abbey Annexe where the material was used as a roof decking. Other illustrations include the new Motel in Kent and local authority housing scheme where Stramit has been used.

- **The Thermal Insulation of Buildings.** Issued by Plaster Products (Greenhithe) Ltd., Greenhithe, Kent, Greenhithe 138-140. Free.

The impact of the Modular Society can already be seen on the building industry and Plaster Products are now making a 3ft 4in wide plaster board for the convenience of architects designing on the 3ft 4in module. Their new leaflet gives details of their insulating plaster board which has a special lining of aluminium foil, and gives much greater thermal insulation than ordinary plaster board, costing approximately 1d a square foot over the standard material.

- **Strong Lighting.** Issued by Strong Electric Corporation Ltd., Whyteleafe, Surrey. Uplands 8822. Free.

This catalogue details the fluorescent lighting fittings manufactured by the Company. Sizes of fittings and technical information, together with price is given for each fitting, which is also shown in a photograph. Most of the fittings are straightforward metal reflectors.

- **Furniture for Special Needs.** Issued by Heals Contracts Ltd., 196, Tottenham Court Road, London, W.1. Museum 1666. Free.

This well-designed brochure, partly in colour, illustrates some of the more recent furnishing schemes for which Heals Contract Department have been responsible. These vary from the fittings in the new ship M.T. Sibella to the reconstruction of furniture for the Hall of Gray's Inn.

- **Vitrolab.** Issued by Plyglass Ltd., Sandhurst Close, South Croydon, Surrey. Sanderstead 2823. Free.

The development of curtain wall in modern buildings makes the advantage of a new lightweight walling material of considerable interest. The brochure describing Vitrolab suggests that it has very considerable possibilities as a lightweight cladding of a permanent nature for contemporary buildings. Vitrolab consists of three layers, the outer being glass backed with a veneer of glass fibre, and the inner face being in insulating material selected. The two main skins are separated by a sealed cavity from $\frac{1}{4}$ in to $\frac{1}{2}$ in according to the degree of heat insulation required, and the glass fabric can be coloured as required. The result is a light and attractive material available in large sizes with a wide range of alternatives for both colour and texture, as an external finish, and with a variety of backings to meet insulation needs. The publication gives considerable information concerning insulation, colour and finishes, etc., and also lists the information which should be given when ordering the material.


- **Presents for Particular People.** Issued by Heals Ltd., 196, Tottenham Court Road, London, W.1. Free.

With the approach of Christmas the problem of finding well designed Christmas presents is one which troubles many architects. Heals catalogue of Christmas gifts helps to make the problem of Christmas present purchasing a simple one as every item shown is well designed and not unreasonable in price.

- **G.E.C. During Six Reigns.** Issued by G.E.C., Magnet House, Kingsway, London, W.C.2. Free.

The G.E.C. Co. has for the last 67 years been concerned with everything electrical, and the organization which is now the largest British electrical manufacturing concern employs 65,000 people. The booklet traces the history of the company from the days of Queen Victoria to the present time, and illustrates it by many excellent photographs many of which are of considerable historic interest, including the Crystal Palace where an electrical exhibition was held as far back as 1891.

[Continued on page 785]



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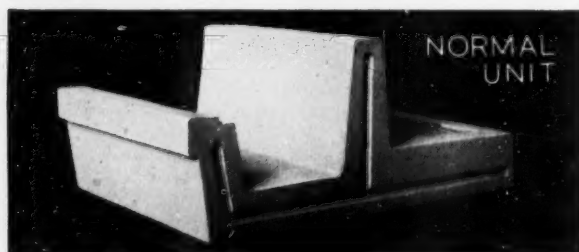
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Internal Angles	2' 0" by 2' 0"	165 lbs.
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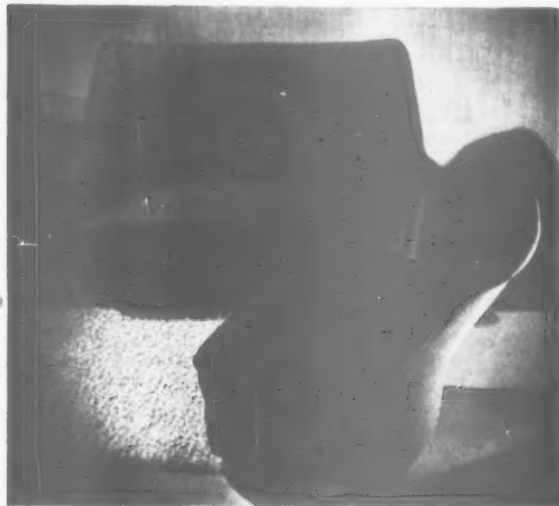
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INFORMATION DIGEST



Dormouse settee and easy chair. Ernest Race Ltd.

- **Dormouse Chairs.** Issued by Ernest Race Ltd., 22, Union Road, Clapham, S.W.4. Macaulay 2215-6. Free.

Race furniture is so well known that it needs no introduction to architects, but a new member of the Race chair family is always of interest. Dormouse range illustrated on the information sheet consists of an easy chair and a settee, and is up to the usual standard of design expected from this firm.

- **Slagbestos Mineral Wool Technical Data Sheets.** Issued by R. McNeill & Co. Ltd., 10 Lower Grosvenor Place, S.W.1. Victoria 6022. Free.

An entirely new brochure that takes the form of a folder containing six technical data sheets which describe the various forms of Slagbestos Mineral Wool. Each sheet shows pictorially the appearance of the material together with tables describing the performance and the recommended use. These sheets should be very useful to those people concerned with efficient insulation.

- **General Catalogue.** W. N. Froy & Sons Ltd., Brunswick Works, King Street, Hammersmith, W.6. Riverside 4101. Free.

This is the first comprehensive catalogue to be produced by this firm since the war, it contains some 18,000 prices in 748 pages that include nearly every object imaginable in the range of a General Builders Merchant. A small thick volume, about 8½ in by 5½ in and nearly 2 in thick, it has that sensible arrangement of a detachable price list at the back, so that fluctuations in price may be easily taken into account. The production of such a publication is a long and costly business, and supplies are naturally limited; recipients may consider themselves fortunate.

- **Copper Tubes, Copper Tube Fittings, Fireplaces, Ironmongery.** Catalogues issued by Rowson, Drew & Glydsdale Ltd., 225 Upper Thames Street, E.C.4. Free.

For those who believe that the comprehensive catalogue is too bulky a volume for convenience, these small pamphlet sized booklets, approximately 7 in by 5 in, should fill the bill. One catalogue, one subject, is as good a system as any, and when they are illustrated as these are—by simple line drawings, clearly identified, they are very easy to use. In particular, the booklet "Copper Tubes" contains a specification, general information, the relevant British Standards, tables containing weights, diameters, decimal equivalents and finally a money table.

MISCELLANEOUS

- **The Dual-purpose Church.** Published by the Incorporated Church Building Society, 7, Queen Anne's Gate, London, S.W.1. Whitehall 8889. Price 3/6.

The problem of providing such buildings at a reasonable cost and of sufficiently flexible design to meet the many uses to which the modern church is put, is one which must concern many building committees and their architects. This small publication is offered by the Incorporated Church Building Society as illustrating a way in which the problem can be met. A series of recent churches are reviewed giving plans and photographs and in each case the basic arrangement enables the sanctuary of one end of the Church to be closed off when the building is required for other purposes, and a stage or platform brought into use.

- **Simplified Design of Roof Trusses for Architects and Builders.** By Harry Parker, M.S. Published by Chapman & Hall Ltd. Price 32/-.

This is the second edition of Mr. Parker's book on roof trusses and it deals in a comprehensive way with the theory of roof truss design and the detail design of timber and steel roof trusses. Chapters are devoted to timber connectors and trusses framed with timber connectors. The book is well illustrated with diagrams, there are very many tables and charts, and for architects and engineering students interested in the problem of roof truss design, this should be a valuable text book.

- **Comprehensive Schools.** Published by the A.B.T., 5, Ashley Place, London, S.W.1. Price 2/-.

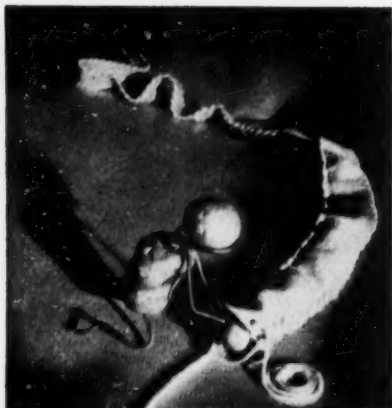
This review was compiled by the A.B.T. after consultation with the National Union of Teachers. It discusses the plans of comprehensive schools with particular reference to seven schools designed by various local authorities including the L.C.C. Each school is illustrated by means of an aerial perspective, sketch plans and brief notes.

ALSO RECEIVED

- **Cambridge Preservation Society Twenty-fourth Annual Report Year to 30th June, 1953.** Published by the Cambridge Preservation Society, Cambridge. Price unstated.
- **The British Council Report for the 19th Year, 1952-53.** Published by the British Council, 65, Davies Street, London, W.1. Price 2/6.
- **The Housing Centre, Sixteenth Report 1952-1953.** Issued by the Housing Centre, 13, Suffolk Street, Haymarket, London, S.W.1. Whitehall 2881. Free.
- **The Twelfth Annual Report of the National Buildings Record.** Issued by the National Buildings Records, 37, Onslow Gardens, London, S.W.7. Free.
- **Warmth without Work.** Hope's Heating & Engineering Ltd., Smethwick, Birmingham. Free.
- **Machinery Catalogue. The 600 Group.** Issued by George Cohen, Sons & Co. Ltd., Broadway Chambers, Hammersmith, London, W.6. Riverside 4141. Price unstated.
- **S.B. Hi-Craft Lamps.** Issued by Arthur Auger, 25, Nelson Road, London, N.8. Mountview 5950. Free.
- **M.K. Electrical Accessories Autumn 1953.** Issued by M. K. Electric Ltd., Wakefield Street, Edmonton, London, N.18. Free.
- **The British Journal of Industrial Safety.** Published by the Royal Society for the Prevention of Accidents, 52, Grosvenor Gardens, London, S.W.1. Free.
- **T.D.A. Statistical Year Book 1952.** Issued by the Timber Development Association, 21, College Hill, London, E.C.4. City 4771. Free.
- **Annual Report for the Year Ending June 30th 1953.** Issued by the British Cast Iron Research Association, Alvechurch, Birmingham. Free.
- **The Council for the Preservation of Ancient Bristol.** Free.
- **Building Crafts Training School. Prospectus.** 153-155, Great Titchfield Street, London, W.1. Free.
- **Report of the Committee on Gas Storage.** Issued by the Ministry of Fuel and Power and Ministry of Housing and Local Government, Thames House, South Millbank, London, S.W.1. Abbey 7000. Price unstated.
- **Exitways from Buildings.** By S. S. Morris, City Engineer Cape Town. Published by Cape Town, City Hall, Cape Town. Price unstated.
- **Reports of the East Kilbride and Glenrothes Development Corporations for the year ended 31st March, 1953.** Published by H.M.S.O. Price 2/6.

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Further particulars from Maurice Hardstaff, A.R.I.B.A.



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PLANT FOX PHOTO (A)741

Dummy cow for use by milkmaids under training. Why not dummy concrete-mixers, dummy vibrators, etc., for use by building trainees? With small alterations this useful piece of equipment might be used during the tea-breaks, especially when the tea is carried round in a bucket.

INDUSTRIAL NOTES

● Timber specimens, cut to a standard size of 4½in x 2½in x ½in and labelled to show trade and botanical names and country of origin, may now be obtained from the Timber Development Association, Ltd., 21, College Hill, London, E.C.4.

The specimens are available at a cost of 1s 3d for individual specimens, and at 1s per specimen for 10 or more, and the present selection covers the following timbers:—

Abura, Afara, Afrormosia, Afzelia, Agba, European Ash, European Beech, European Birch, Borneo Camphorwood, Western Red Cedar, Sweet Chestnut, Douglas Fir, European Elm, Gaboon, Greenheart, Guarea, Gurjun, Western Hemlock, Indigbo, Iroko, Jarrah, Katsura, European Larch, African Mahogany, Central American Mahogany, Makore, Mansonia, Meranti, Nyankom, European Oak, Silky Oak, Obeche, Olive, Opepe, Parana Pine, British Honduras Pitch Pine, Podo, Popular, Ramin, Rauli, European Redwood, Sapele, White Seraya, Spotted Gum, Sycamore, Tasmanian Oak, Teak, African Walnut, European Walnut, European Whitewood.

A set of 50 specimens costs £2 10s, post free.

● The fourth Annual General Meeting of the National Federation of Plastering Contractors was held in London on December 2, 1953. The meeting was preceded by a luncheon at which the President, Mr. J. L. Phillips (Leeds), welcomed Mr. Wilfred Horsfall, President of the National Federation of Building Trades Employers. Among others present were Associate Members representing the manufacturing side of the trade and the building technical colleges.

At the business session which followed, the following officers were elected for 1954:—

President: Mr. R. A. Atkin (Cardiff); Senior Vice-President: Mr. J. S. Cook (Cambridge); Junior Vice-President: Mr. A. R. Ball (Liverpool); Immediate Past-President: Mr. J. L. Phillips (Leeds); Honorary Treasurer: Mr. H. Humber (London).

● Two new works costing about £5,000,000 are to be built by The Associated Portland Cement Manufacturers, Ltd., the parent Company of The Blue Circle Group—the largest cement manufacturing and distributing organization in the world. One of the works is to be near Caudon in Staffordshire and the other near Westbury in Wiltshire. The capacity of each will be 175,000 tons a year. The works are being built to meet a vastly increased demand.

● Changes in the directorate of Thos. W. Ward, Ltd., Sheffield, have been announced. Mr. George Wood, C.B.E., who has been Chairman of the Company since 1950, retires from that office as from January 1, 1954, and in recognition of his long service with the firm he has been appointed Vice-President. Mr. Wood will remain a Director.

The new Chairman, who will take up office on January 1, is Mr. Harold W. Secker, O.B.E., who at the present time is Joint Managing Director.

Mr. Arnold Carr, who was in charge of the Company's London operations prior to his return to Sheffield in 1950 has been appointed Assistant Managing Director. Also appointed to the Board is Mr. Rawson F. Stagg who, having been a local Director since 1947, now becomes a full Director.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

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OPEN

BUILDING

BIRMINGHAM C.C. (a) 6 blocks of 7-storey flats, comprising 210 dwellings, Kitsland Road, Shard End Estate. (b) City Architect, Civic Centre, 1. (d) Jan. 1.

BUCKS C.C. (a) County secondary school for 600 children, Langley. (b) County Architect, County Offices, Aylesbury. (c) 5gns. (d) Jan. 1. (e) Feb. 8.

BURGESS HILL U.C. (a) 28 houses as 2 separate schemes of 15 and 13, or as 1 combined scheme. (b) Clerk, Council Offices. (c) £2. (e) Dec. 31.

CARDIFF C.C. (a) (1) 6 shops and maisonnettes, 9 garages and site works, Llangranog Road, North Llanishen; (2) 4 shops and maisonnettes, 13 garages and site works, Llanrumney Avenue, Llanrumney; (3) 4 shops and maisonnettes, 20 garages and site works, Pwllmelin Road, Fairwater. (b) City Surveyor, City Hall. (c) 2gns each contract. (e) Jan. 4.

DARTFORD B.C. (a) 33 garages, Temple Hill Neighbourhood Unit. (b) Town Clerk, Town Clerk's Office, High Street. (c) 2gns. (e) Jan. 11.

DEAL B.C. (a) 12 bungalows in 2 terrace blocks of 6, Orchard Avenue Estate. (b) Borough Engineer, Municipal Offices, Queen Street. (c) 2gns. (e) Jan. 8.

DEWSBURY B.C. (a) Conversion of "Highfield," Halifax Road, into hostel for aged people. (b) Borough Architect, Town Hall. (e) Jan. 7.

ESSEX C.C. (a) Workshop block at proposed Thurrock Technical College, Grays. (b) County Architect, County Hall, Chelmsford. (d) Jan. 2.

ESSEX C.C. (a) Huttet branch library and youth employment bureau, The Shrubberies, High Road, Woodford. (b) County Architect, County Hall, Chelmsford. (d) Jan. 2.

ESSEX C.C. (a) Clinic and nurses' house, Great Wakering, near Southend. (b) County Architect, County Hall, Chelmsford. (d) Jan. 9.

GATESHEAD B.C. (a) Caretaker's house, Southend Road Junior School. (b) Borough Surveyor, Municipal Buildings, Swinburne Street, 8. (c) 2gns. (e) Jan. 13.

MARGATE B.C. (a) 3-storey block of 18 flats, Crow Hill Estate. (b) Borough Engineer, 38, Grosvenor Place. (c) 2gns. (e) Jan. 9.

NEW FOREST R.C. (a) (1) 2 pairs of houses and 2 blocks of 4 houses, Ewell Way, Salisbury Road, Totton; (2) 4 pairs of houses, Langdown Crost, Hythe. (b) Engineer and Surveyor, Council Offices, Lyndhurst, Hants. (c) 2gns. (e) Jan. 4.

NORTHAMPTON B.C. (a) Cherry Orchard Secondary Modern School, Northampton. (b) Chief Education Officer, "Springfield," Cliftonville, Northampton. (d) Dec. 31.

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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NORTHWICH R.C. (a) (Contract 22A) 8 houses and new sewage disposal installation, Lach Dennis; (Contract 24B) 10 houses, Churchill Drive, Taporley; (Contract 25A) 8 houses, 4 bungalows and extension to sewage disposal works, Eaton Village, Rushton. (b) Engineer and Surveyor, Whitehall, Hartford. (c) Jan. 7.

NOTTINGHAM C.C. (a) Extension of existing pavilion in form of Ladies' Changing Room, etc., off Wilford Grove, near Victoria Embankment. (b) City Engineer, Guildhall. (c) £2. (e) Jan. 4.

PICKERING R.C. (a) Erection of pairs of houses at Great Barugh, Kirbymisperton and Cropton. (b) Council's Clerk, 20, Eastgate. (c) 2gns. (e) Jan. 9.

PONTLOTTYN (GLAM). (a) Alterations to The Empire Club, Stuart Street. (b) Secretary, The Empire Club, Stuart Street. (c) 2gns.

PORHCRAWL (GLAM). (a) Extensions to dining hall at The Rest (Seaside) Convalescent Home, Porthcawl. (b) H. W. Fletcher, 21, Dumfries Place, Cardiff. (c) 2gns.

READING B.C. (a) Steel-framed cattle hall, Reading Cattle Market. (b) Borough Surveyor, Town Hall. (c) 2gns. (e) Jan. 7.

RIPLEY U.C. (a) 10 houses, Woodlands Estate, Moseley Street. (b) Council's Surveyor, Town Hall. (c) 2gns. (e) Jan. 16.

SCOTLAND—GLASGOW C.C. (a) 71 flats for aged and single persons, Garthamlock. (b) City Architect, 20, Tron-gate, Glasgow, C.I. (e) Jan. 4.

WEST RIDING C.C. (a) New occupation centre, Wakefield Road, Hemsworth; (all trades). (b) County Architect, "Bishopgarth," Westfield Road, Wakefield. (c) 2gns. (e) Jan. 15.

WEST RIDING C.C. (a) Additional classroom accommodation, Askern Moss Road County Primary School. (b) Divisional Architect, "Bishopgarth," Westfield Road, Wakefield. (c) 1gn. (e) Dec. 28.

WEST RIDING C.C. (a) House, office and garage, New Road, Low Bradfield; 4 houses, Wheatley Lawns, Ben Rhydding; 2 houses, office and garage, New Road, Mytholmroyd; 1 house, Woods Avenue, Marsden; 2 houses, Swithenbank Estate, Ossett; 5 houses, Moorshutt Estate, Hemsworth; 2 houses, Aberford Road, Oulton; 1 house, Byram Park Estate, Byram-cum-Sutton. (b) County Architect, "Bishopgarth," Westfield Road, Wakefield. (c) 2gns. (e) Jan. 1.

WEST SUFFOLK C.C. (a) Painting repairs and improvements to Educational buildings in West Suffolk. (b) County Architect, 13, Westgate Street, Bury St. Edmunds. (d) Jan. 1.

WARRINGTON B.C. (a) High School for Girls at Loushers Lane. (b) Borough Surveyor, Town Hall. (c) 5gns. (e) Jan. 4.

WOKING U.C. (a) 56 houses, Barnsbury Farm Estate. (b) Engineer and Surveyor, Council Offices. (c) 2gns. (e) Jan. 18.

YORK C.C. (a) 184 houses, Chapel Fields Estate. (b) City Architect, 8, St. Leonards Place. (c) £5. (e) Jan. 9.

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Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

SWANSEA. (1) Territorial Army centre. (2) The Grange, West Cross. (3) R. M. Douglas (Contractors), Ltd., 395, George Street, Erdington, Birmingham. (4) £107,662.

LONDON COUNTY COUNCIL. (1) Primary school. (2) Woolwich. (3) E. H. Smith (Croydon), Ltd., 48, Wellesley Road, Croydon. (4) £45,940.

BRENTFORD. (1) Offices for Alfa-Laval Co., Ltd. (3) W. S. Try, Ltd., Cowley, Uxbridge. (4) £32,000.

BRISTOL. (1) Factory, for Danish Bacon Company, Ltd., Bristol. (2) Anthea Road. (3) Direct labour.

DURHAM COUNTY COUNCIL. (1) School. (2) Shotley Bridge. (3) R. Gallacher, Ltd., Blackhill, Co. Durham. (4) £34,300.

TYNEMOUTH. (1) R. C. Church. (2) Backworth. (3) T. Curry and Son, Melton Street, Newcastle-on-Tyne.

MITCHAM B.C. (1) 57 dwellings. (2) Whadcoat Street. (3) M. Howard (Mitcham), Ltd., Wandle House, London Road, Mitcham. (4) £103,897.

GT. YARMOUTH B.C. (1) Flats and maisonnettes. (3) D. Leighton and Son, Ltd., Gt. Yarmouth, and W. Ames, Ltd. (4) £52,948 and £14,003, and £28,794.

LONDON COUNTY COUNCIL. (1) 158 flats, 10 maisonnettes, laundries, etc. (2) Patmore Estate, Battersea. (3) Tersons, Ltd., Dollis Park, London, N.3. (4) £414,780. (1) 48 flats. (2) Champion Hill, S.E. (3) J. M. Hill and Sons, Ltd., Wembley. (4) £130,554. (1) 78 maisonnettes and flats. (2) Dune Street, Stepney. (3) Rowley Bros., Ltd., Tottenham, N. (4) £153,490. (1) Reinstatement. (2) Stamford Hill Depot. (3) John Mather (Builders), Ltd., 18a, Northampton Square, London, E.C.1. (4) £29,052. (1) War damage repair. (2) William Penn secondary school, Camberwell. (3) William Blood, Ltd., Lambeth, S.E. (4) £23,336.

HORNSEY B.C. (1) 30 flats. (2) Sidney Road. (3) W. W. Rowney and Co., Ltd., 85, Blackfriars Road, London, S.E.1. (4) £51,229.


STEPNEY B.C. (1) Blocks of flats. (2) Sidney Street. (3) Soar and Co., Ltd., 79a, Jamaica Road, London, S.E.16. (4) £42,035.

STEVENAGE DEVELOPMENT CORPORATION. (1) Large factory, etc., for English Electric Co., Ltd. (3) John Laing and Son, Ltd., London, N.W.7. Work begun.

CAMBERWELL B.C. (1) 108 dwellings. (2) Croxted Road. (3) W. J. Simms, Sons and Cooke, Ltd., 78, Mount Street, W.1. (4) £251,487. (1) 65 flats, 14 houses. (2) Cleve Hill. (3) Direct labour. (4) £161,508.

LONDON COUNTY COUNCIL. (1) Buildings. (2) Holloway secondary school. (3) Halse and Son, Ltd., Woolwich, S.E.18. (4) £209,777.

KENSINGTON B.C. (1) 20 flats. (2) Colville Square. (3) Richard Costain, Ltd., Dolphin Square, London, S.W.1. (4) £36,467.



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WALSALL B.C. (1) 24 flats. (2) Holts-hill Lane. (3) Deacon and Boardman, Ltd., Algernon Street, Walsall. (4) £36,959.

WOOLWICH B.C. (1) 97 dwellings, roads and sewerage. (2) Lord Warwick Street site. (3) Direct labour. (4) £195,466.

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(1) Erection of 2 houses and external works. (2) Prison Commission, Ducane Road, Wormwood Scrubs. (3) Geo. Moss & Sons, Ltd., Cranleigh Wharf, Lady Margaret Road, Southall, Middx.

LONDON, MINISTRY OF WORKS.
(1) Alterations to Wards 19 and 21. (2) Royal Hospital, Chelsea. (3) C.A.S. (Contractors), Ltd., 7, Drayton Gardens, S.W.10.

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MIDDLESEX, MINISTRY OF WORKS. (1) Adaptations to form Boiler House. (2) Palace of Engineering, North Gate, Wembley Exhibition. (3) Geo. Moss & Sons, Ltd., Cranleigh Wharf, Lady Margaret Road, Southall, Middx.

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BERKSHIRE COUNTY COUNCIL.

APPLICATIONS are invited for the following appointment:

ASSISTANT ARCHITECT. Salary A.P.T. IX, £815-£935. Candidates must be members of the Royal Institution of British Architects and have high ability and considerable experience in planning, design and construction. The work in the first instance will be in the design of a new Technical College and the running of a contract for a new Secondary Modern School; opportunities for obtaining a varied experience on other types of County Buildings will be given later.

Application forms and particulars can be obtained from J. T. Castle, A.R.I.B.A., A.M.T.P.I., County Architect, Wilton House, Parkside Road, Reading, to whom they should be returned not later than Tuesday, 12th January, 1954.

E. R. DAVIES,

Clerk of the Council.

[7526]

BASILDON DEVELOPMENT CORPORATION.

CHIEF ARCHITECT'S DEPARTMENT.

APPLICATIONS are invited for the posts of **JUNIOR ASSISTANT ARCHITECTS**, Grade VB, in the salary range £535-£585 on the staff of the Chief Architect/Planner, N. Tweddell, A.R.I.B.A. Preference will be given to Associate Members of the R.I.B.A. and a good standard of draughtsmanship and knowledge of working drawings is required.

Commencing salary within the grade would be in accordance with experience and ability. The appointments are subject to the provisions of the Local Government and Other Officers' Superannuation Act and the successful applicants will be required to pass a medical examination. Under suitable conditions, houses in the new town will be available to successful candidates.

Applications on form obtainable from the Chief Architect should reach the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, 1st January, 1954.

[7527]

URBAN DISTRICT COUNCIL OF CRAYFORD.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

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Further particulars and application forms, which must be submitted by 12 noon on the 4th January, 1954, from the Engineer and Surveyor, Town Hall, Crayford, Kent.

G. B. HODGSON,

Clerk of the Council.

[7529]

DERBY CORPORATION.

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E. H. NICHOLS,

Town Clerk.

[7528]

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ASSISTANT required in Architect's Department of North Lincolnshire Iron and Steel Works. The Department is responsible for the design of offices, amenity, medical and laboratory buildings, in connection with works development. Applicants should be at least of Inter-R.I.B.A. standard, have a sound knowledge of modern construction and building services, and be quick and accurate draughtsmen capable of preparing working detail drawings from sketch plans.—Write, stating age, details of training and experience, and salary required, to Box 2397.

[7520]

SITUATIONS VACANT

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ASSISTANT required in Architects Office in Exeter. Not less than Inter. Standard. Write with full particulars and salary required.—Box 2371.

[7518]

JUNIOR worker-up required in chartered quantity surveyors' office; some experience in abstracting and billing preferred; 5-day week; staff canteen in operation.—Apply, stating age, experience and salary required, to the Chief Staff Architect, Ilford, Ltd., Romford, Essex.

[7517]

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[0086]

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[7523]

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[0134]

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[0120]

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[0137]

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[7524]

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[0124]

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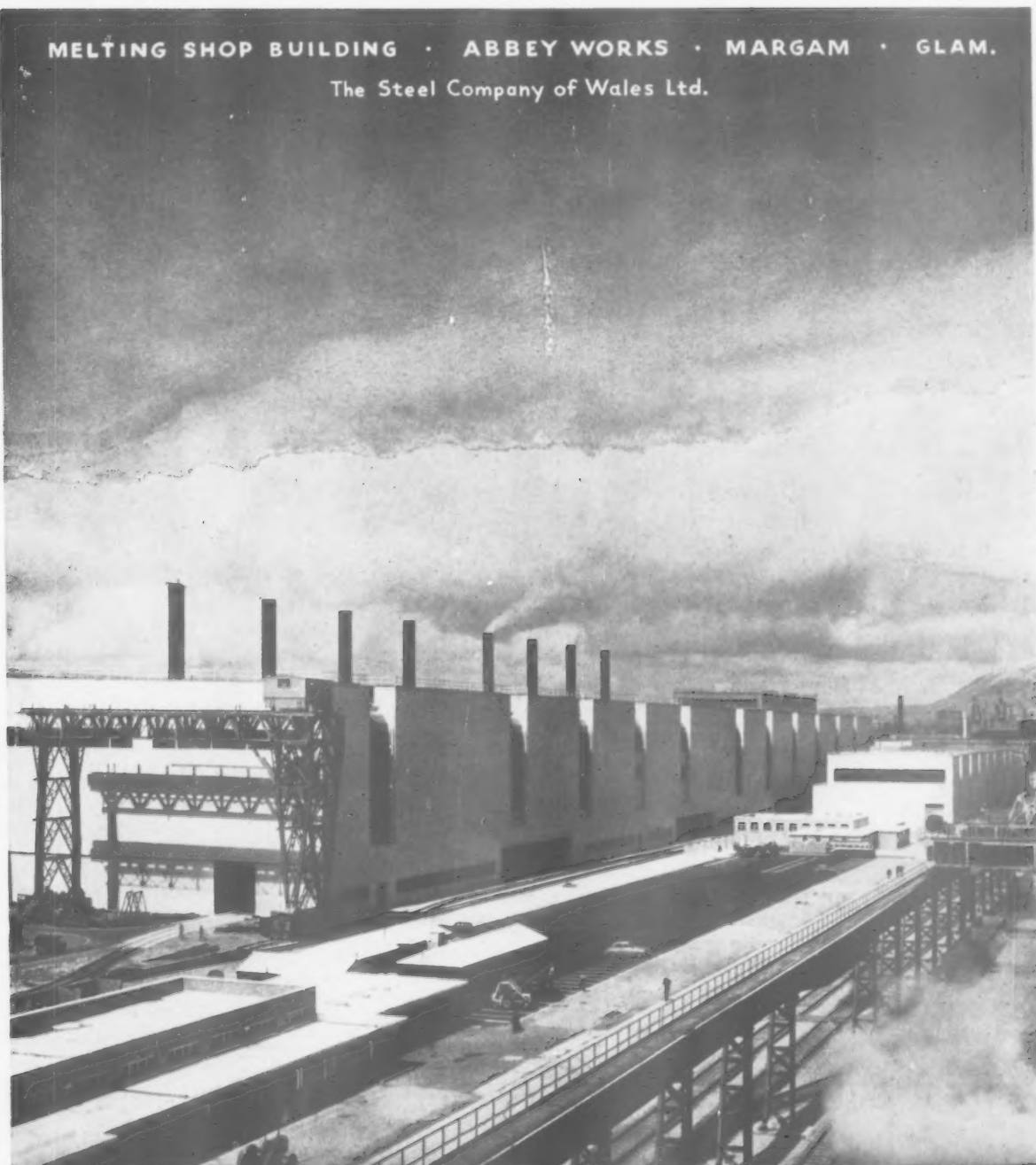
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